EcoStruxure™
Innovation At Every Level

Selectivity, Cascading and Coordination Guide

Guide 2021
Complementary Technical Information

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*PEP: Product Environmental Profile (i.e. Environmental Product Declaration)

General Introduction

Design and selection of equipment for low voltage electrical installations requires to consider and check the behavior of all devices on the current path in fault situation. High short-circuit current can damage equipment by electrodynamical and thermal effects. Each device can individually withstand the worst effects, but it may require significant oversizing and, on occasion, may be impossible. So the protection of each devices or equipment relies on upstream over-current protective device. In that case the proper “coordination” between the two devices shall be checked.

Lower amplitude faults such as overloads or some earth faults can also create disturbances by causing trips and power interruptions for larger sections of the installation than expected.

European Harmonization document HD60364-5-53 2015 for Low voltage electrical installation provides the following definition of coordination of electrical equipment:
530.3.5 Co-ordination of electrical equipment: *correct way of selecting electrical devices in series to ensure safety and continuity of service of the installation taking into account short-circuit protection and/or overload protection and/or selectivity*

Schneider Electric provides "co-ordination" performances for two or three low voltage devices in the following cases:

Coordination related to continuity of service

- Selectivity (also called discrimination)
- Selectivity enhanced by cascading
- Motor starter coordination type 2
- Circuit-breaker and LV/LV transformers

Coordination related to safety

- Cascading (also called group short-circuit protection, or back up protection)
- Motor starter coordination type 1
- Coordination between switch-disconnector and circuit breaker or fuses
- Coordination between circuit breaker and busbar trunking (busway) system

For coordination of Surge protection device with upstream overcurrent protection see our Design guide:

https://download.schneider-electric.com/files?p_Doc_Ref=CA903014E

The information provided in this Guide contains general co-ordination performances for a selection of low voltage devices of Schneider Electric.

This document is not intended as a substitute for and is not to be used for determining suitability or reliability of these devices for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the devices with respect to the relevant specific application or use thereof. Schneider Electric reserves the right to make changes or updates with respect to or in the content of the publication or the format thereof at any time without notice.

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General Content

Selectivity, Cascading and Coordination Guide

Link for downloading this guide

Coordination for electrical distribution A-2

Coordination for motor circuits B-1

Coordination between circuit breakers

Introduction to selectivity

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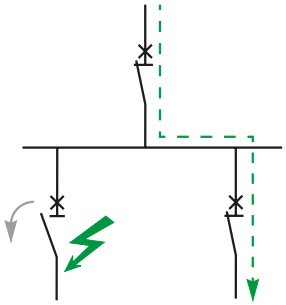
Selectivity of over-current protection is covered by circuit breakers standards: IEC 60947-2 Annex A and IEC 60898-1 Annex D.
Selectivity of residual current protection is covered by IEC 60364 series and product standards IEC 60947-2 Annex B and M, IEC 61009-1.



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Selectivity is essential to ensure continuity of supply and fast fault localization.

Selectivity (Discrimination)

Selectivity is achieved by overcurrent and earth fault protective devices if a fault condition, occurring at any point in the installation, is cleared by the protective device located immediately upstream of the fault, while all the other protective devices remain unaffected.

Selectivity is required for installation supplying critical loads where one fault on one circuit shall not cause the interruption of the supply of other circuits. In the IEC 60364 series it is mandatory for installation supplying safety services (IEC60364-5-56 2009 560.7.4). Selectivity may also be required by some local regulations or for some special applications like:
- Medical location
- Marine
- High-rise building.

Selectivity is highly recommended when power availability and reliability is critical due to the nature of the loads such as:
- Data centers
- Infrastructure (tunnel, airport…)
- Critical processes.

From installation point of view: selectivity is achieved when the maximum short-circuit current at a point of installation is below selectivity limit of the circuit breakers supplying this point of installation. Selectivity shall be checked for all circuits supplied by one source and for all types of fault:
- Overload
- Short-circuit
- Earth fault.

When system can be supplied by different sources (Grid or Generator Set for instance) selectivity shall be checked in both cases.

According to the IEC 60364-5-53:535 2019 standard, selectivity between two circuit breakers can be:
- **Partial**: up to a specified value according to circuit breakers characteristics (Is)
- **Full**: up to the maximum prospective short-circuit current (Isc_max) on the load side of the downstream circuit breaker
- **Total**: up to the breaking capacity (Icu or Icn) of the downstream circuit breaker
- **Enhanced**: up to a value higher than the breaking capacity of the downstream circuit breaker when cascading is applied (See page A-176).

In an electrical installation, selectivity performance depends on the two circuit breakers characteristics and on the installation's maximum short-circuit current on the load side. The table below summarizes the different situations:

	Selectivity characteristics of two circuit breakers	Short-circuit current on the load side versus the selectivity limit Is of the two circuit breakers	Selectivity consequence for the electrical installation	
Without cascading	**Partial**	Is ⩽ Isc_max < Icu (or Icn)	"**Partial**" (Example 1a)	☹
		Isc_max < Is < Icu (or Icn)	"**Full**" (Example 1b)	☺
	Total	Isc_max ⩽ Is = Icu (or Icn)	"**Total**" (Example 2)	☺
With cascading	**Partial**	Is < Icu < Isc_max	**Partial** (up to Is)	☹
	Total	Is = Icu < Isc_max	**Partial** (up to Icu but < Isc_max)	☹
	Enhanced	Icu < Isc_max ⩽ Is_enhanced	Enhanced selectivity (up to Is_enhanced) (Example 3)	☺

Selectivity in a given installation according to circuit breakers selectivity performance without or with cascading (or back-up or combined short-circuit protection).

Coordination between circuit breakers

Introduction to selectivity

From a designer perspective, a simple way of specifying selectivity in an electrical installation can be either:

■ "Total Selectivity between circuit breakers is required and cascading is forbidden"

or

■ "Total selectivity between circuit breakers is required. If cascading is applied, enhanced selectivity up to the maximum short-circuit current shall be ensured".

Practical examples :

■ **Example 1: ComPact NSX100F (Icu = 36 kA 400 V AC) TMD 100 A & iC60N C 32 A (Icu = 10 kA 400 V AC).**
Selectivity limit Is = 1 kA (See table page A-77)
□ 1a: In a given circuit of an electrical installation where the maximum short-circuit current (Isc_max) downstream iC60N C 32 A is 5 kA the selectivity will be "partial".
□ 1b: In a given circuit of an electrical installation where the maximum short-circuit current (Isc_max) downstream iC60N C 32 A is 0.8 kA the selectivity will be "Full".

■ **Example 2: ComPact NSX100F (36 kA 400 V AC) MicroLogic 2.2 100 A & iC60N (10 kA 400 V AC) C 32 A.**
Total selectivity (See table page A-76)
□ In a given circuit of an electrical installation where the maximum short-circuit current (Isc_max) downstream iC60N C 32 A is ⩽ 10 kA the selectivity will be "Total".

■ **Example 3: ComPact NSX100F (36 kA 400 V AC) Micrologic 100A & iC60N (10 kA 400 V AC) C 32 A.**
Enhanced selectivity limit = 20 kA, Enhanced breaking capacity Icomb = 20 kA ("20/20" in table page A-76)
□ In a given circuit of an electrical installation where the maximum short-circuit current (Isc_max) downstream iC60N C 32 A is 10 kA < Isc_max ⩽ 20 kA the selectivity will be "Enhanced".

Icu : breaking capacity of circuit-breaker according to IEC/EN 60947 series
Icn : breaking capacity of circuit-breaker according to IEC/EN 60898 or IEC/EN 61009 series

Principles of Selectivity

Different principles are involved to achieve selectivity based on:
■ Current
■ Time
■ Energy
■ Logic.

Current based selectivity:

This method is realized by setting successive tripping thresholds at stepped levels, from downstream circuits (lower settings) towards the source (higher settings). Selectivity is total or partial, depending on particular conditions, as noted above.

Time based selectivity

This method is implemented by adjusting the time-delayed tripping units, such that downstream relays have the shortest operating times, with progressively longer delays towards the source. In the two-level arrangement shown, upstream circuit breaker A is sufficiently delayed to ensure total selectivity with B (for example: MasterPact with electronic trip unit).

Selectivity category B circuit breakers are designed for time based selectivity, the selectivity limit will be the upstream short time withstand value (Icw).

Selectivity based on a combination of the two previous methods

A time-delay added to a current level scheme can improve the overall selectivity performance.
The upstream CB has two magnetic tripping thresholds:
■ Im A: delayed magnetic trip or short-delay electronic trip
■ Ii: instantaneous trip
Selectivity is total if Isc B <Ii (instantaneous).

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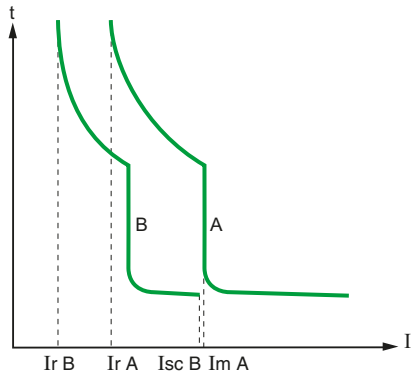

Total selectivity between CBs A and B.

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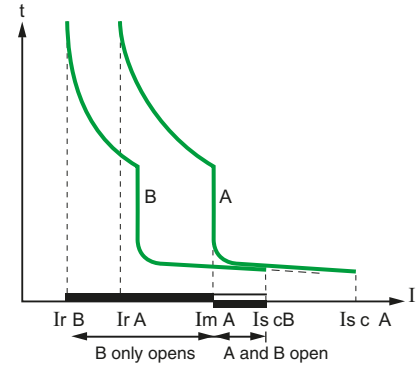
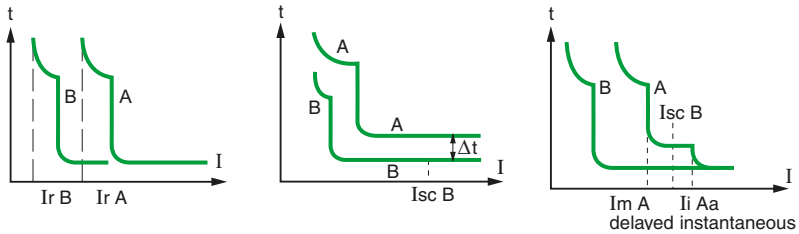


Partial selectivity between CBs A and B



Current based selectivity, Time based selectivity, Combination of both

Coordination between circuit breakers
Introduction to selectivity

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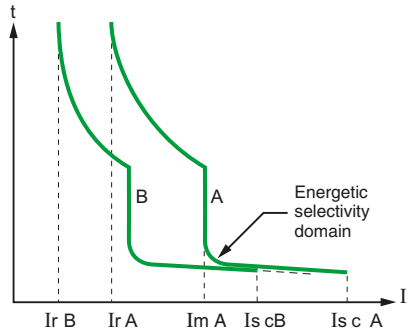

Energetic based selectivity.

Protection against high level short-circuit currents: Selectivity based on arc-energy levels

Where time versus current curves are superposed, selectivity is possible with limiter circuit breaker when they are properly coordinated.

Principle: When a very high level short-circuit current is detected by the two circuit breakers A and B, their contacts open simultaneously. As a result, the current is highly limited.
- The very high arc-energy at level B induces the tripping of circuit breaker B
- Then, the arc-energy is limited at level A and is not sufficient to induce the tripping of A.

This approach requires an accurate coordination of limitation levels and tripping energy levels. It's implemented inside the ComPact NSX range (current limiting circuit breaker), and between ComPact NSX and Acti **9** range. This solution is the only one to achieve selectivity up to high short-circuit current with selectivity category A circuit breaker according to IEC60947-2.

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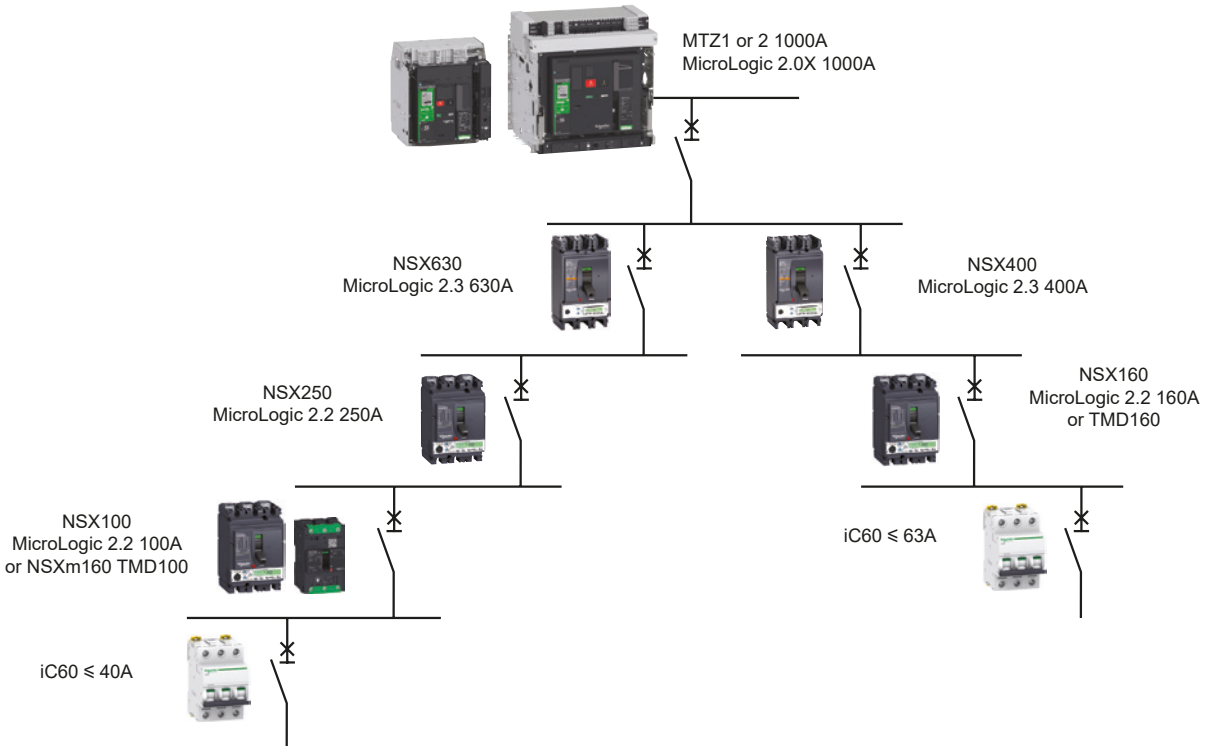

Practical example of selectivity at several levels with Schneider Electric circuit breakers

Coordination between circuit breakers

Introduction to selectivity

See Selectivity enhanced by cascading tables page A-176

Selectivity enhanced by cascading

Cascading between 2 devices is normally achieved by using the tripping of the upstream circuit breaker A to help the downstream circuit breaker B to break the current.
By principle cascading is in contradiction with selectivity. But the energy selectivity technology implemented in ComPact NSX circuit breakers allows to improve the breaking capacity of downstream circuit breakers and to keep a high selectivity performance at the same time.
The principle is as follows:
- The downstream limiting circuit breaker B sees a very high short-circuit current. The tripping is very fast (<1 ms) and then, the current is limited.
- The upstream circuit breaker A sees a limited short-circuit current compared to its breaking capability, but this current induces a repulsion of the contacts. As a result, the arcing voltage increases the current limitation. However, the arc energy is not high enough to induce the tripping of the circuit breaker. So, the circuit breaker A helps the circuit breaker B to limit and break the short-circuit current, without tripping itself. The selectivity limit can be higher than Icu B and the selectivity becomes total with a reduced cost of the devices.

Logic selectivity or “Zone Selective Interlocking – ZSI”

This type of selectivity can be achieved with circuit breakers equipped with specially designed electronic trip units (ComPact, MasterPact): only the Short Time Protection (Isd, Tsd) and Ground Fault Protection (GFP) functions of the controlled devices are managed by Logic Selectivity. In particular, the Instantaneous Protection function is not concerned.
The main benefit of this solution is to have a short tripping time wherever is located the fault with selectivity category B circuit breaker. Time based selectivity on multi level system implies long tripping time at the origin of the installation. ZSI does not increase the selectivity limit provided in the tables.

Selectivity schemes based on logic techniques are possible, using CBs equipped with electronic tripping units designed for the purpose (ComPact, MasterPact) and interconnected with pilot wires

Settings of controlled circuit breakers

- time delay: staging of the time delays is necessary at least for circuit breaker receving a ZSI Input (TsdD1 > trip time with no delay of D2 and TsdD2 > trip time with no delay of D3)
- thresholds: there are no threshold rules to be applied, but natural staging of the protection device ratings must be complied with (IsdD1 > IsdD2 > IsdD3).

Note: This technique provides selectivity even with circuit breakers of similar ratings.

Principles

Activation of the Logic Selectivity function is via transmission of information on the pilot wire:
- ZSI input:
  - low level (no downstream faults): the Protection function is on standby with no time delay,
  - high level (presence of downstream faults): the relevant Protection function moves to the time delay status set on the device.
- ZSI output:
  - low level: the trip unit detects no faults and sends no orders,
  - high level: the trip unit detects a fault and sends an order.

Operation

A pilot wire connects in cascading form the protection devices of an installation (see Fig. H56). When a fault occurs, each circuit breaker upstream of the fault (detecting a fault) sends an order (high level output) and moves the upstream circuit breaker to its set time delay (high level input). The circuit breaker placed just above the fault does not receive any orders (low level input) and thus trips almost instantaneously.

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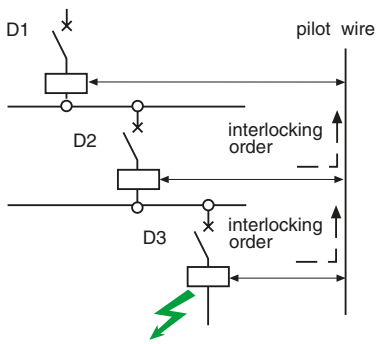
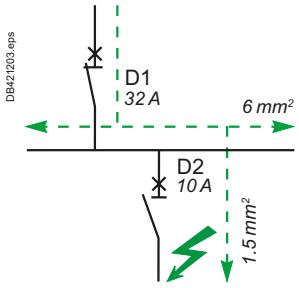


Logic selectivity

Coordination between circuit breakers

Introduction to selectivity



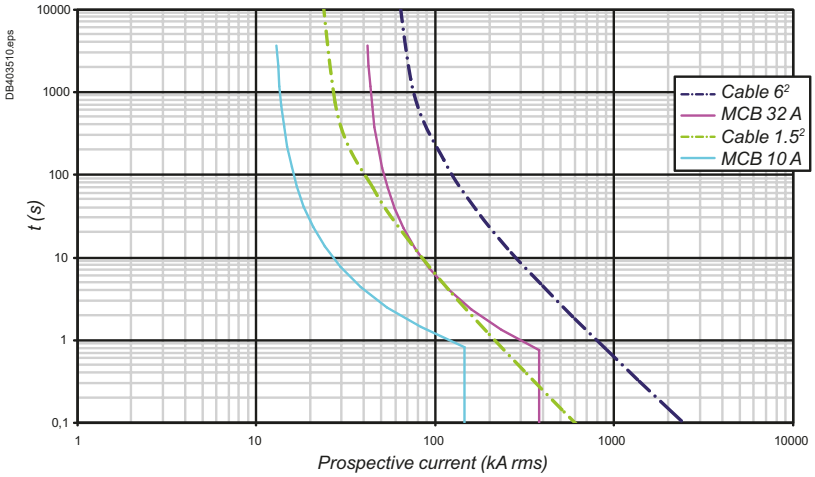
Selectivity between modular circuit breakers

We use two types of selectivity when these circuit breakers are combined:
- current selectivity,
- energy selectivity.

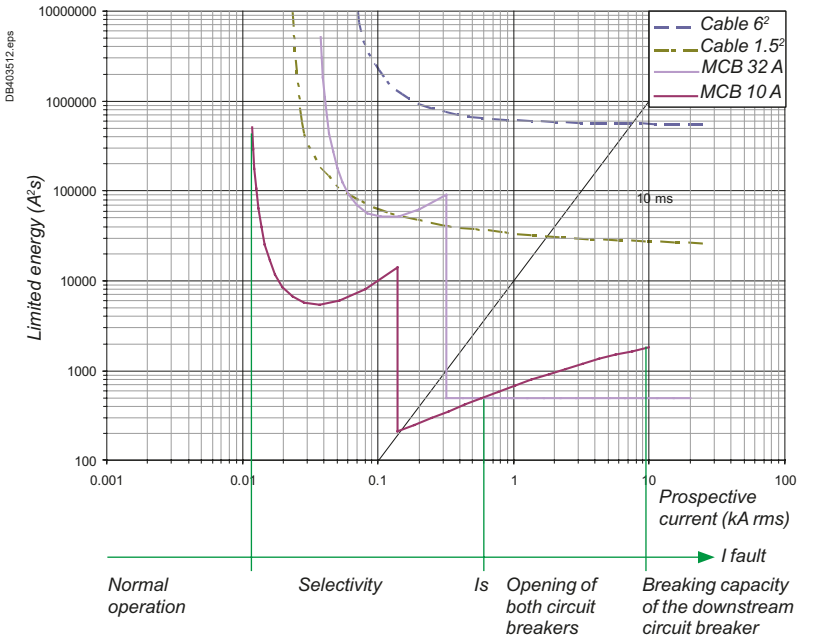
For selectivity to be ensured whatever the prospective fault current, 3 conditions have to be fulfilled:
- the upstream and downstream circuit breakers must have different ratings (ratio > 1.3),
- their type of curve (B,C,D ...) shall be consistent to ensure D1 magnetic level > D2 magnetic level,
- the energy allowed to pass through the downstream circuit breaker when it cuts off must still be less than the operating energy of the upstream trip.

Example

- Let us take the example of a single phase network where we have a 32 A curve D circuit breaker in series with a 10 A curve D circuit breaker:
  - the 32 A circuit breaker protects the 6^2 cables and the 10 A circuit breaker protects the 1.5^2 cables. This combination allows selectivity, but up to what threshold?
  - if current selectivity is considered (t = f (Ip)) it can be seen that the tripping curve of the downstream circuit breaker is well below the non-tripping curve of the upstream circuit breaker,
  - furthermore, each circuit breaker is well below the maximum stress permitted by the cables.



When considering energy selectivity, it is necessary to compare the maximum stresses characterized by the integrals I^2t relative to the development of the arc in the downstream device and by the sensitivity of the trip unit, still in I^2t, of the upstream device (curves $I^2t = f(Ip)$).



Coordination between circuit breakers

Introduction to selectivity

Selectivity between ComPact NSX upstream and modular circuit breakers downstream

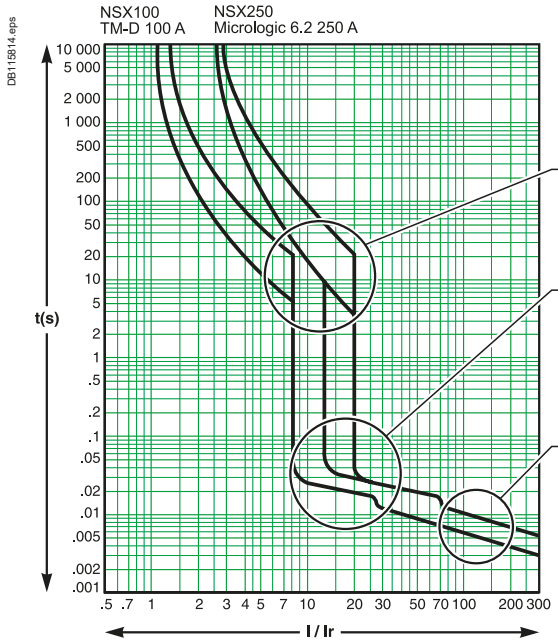
ComPact NSX circuit breakers have been designed to provide total selectivity with Acti**9** range.

- Total selectivity between ComPact NSX 100 A with electronic trip unit and Acti**9** circuit breaker up to 40 A.
- Total selectivity between ComPact NSX ≥ 160 A with TMD trip unit ≥ 125 A or electronic trip unit and Acti**9** up to 63 A.

Selectivity between ComPact NSX circuit breakers

Thanks to the Roto-Active breaking principle in the ComPact NSX, a combination of Schneider Electric circuit breakers provides an exceptional level of selectivity between protection devices.
This performance is due to the combination and optimization of 3 principles:

- current selectivity,
- energy selectivity,
- time selectivity.



Protection against overloads: current selectivity
The protection is selective if the ratio between the setting thresholds is higher than 1.6 (in the case of two distribution circuit breakers).

Protection against weak short circuits: time selectivity
Tripping of the upstream device has a slight time delay; tripping of the downstream device is faster.
The protection is selective if the ratio between the short-circuit protection thresholds is no less than 1.5.

Protection against high short circuits: energy selectivity
This principle combines the exceptional limiting power of the ComPact NSX devices and reflex release, sensitive to the energy dissipated by the short circuit in the device.
When a short circuit is high, if it is seen by two devices, the downstream device limits it greatly. The energy dissipated in the upstream device is insufficient to cause it to trip: there is selectivity whatever the value of the short circuit.
The range has been designed to provide energy selectivity between NSX630/NSX250/NSX100 or NSX400/NSX160 with a trip unit with the same rating as the frame up to 440 V AC.

Selectivity between MasterPact or ComPact NS ≥ 630 A upstream and ComPact NSX downstream

Thanks to their high-performance control units and a very innovative design, MasterPact and ComPact NS ≥ 630 A devices offer, as standard, a very high level of selectivity with downstream ComPact NSX up to 630 A
Respect the basic rules of selectivity for overload and short-circuit, or check that curves do not overlap with EcoStruxure Power Design.
Check the selectivity limit in tables for high short-circuit current or when using limiter circuit breakers (MasterPact MTZ1 L1 or ComPact NS L or LB) upstream.

Selectivity between MasterPact or ComPact NS ≥ 630 A upstream and downstream

The selectivity category of these devices (excepted limiters ones) is B according to IEC 60947 standard. Selectivity is obtained by a combination of current selectivity and time selectivity.
Respect the basic rules of selectivity for overload and short-circuit, or check that curves do not overlap with EcoStruxure Power Design.
Check the selectivity limit in tables for high short-circuit current or when using limiter circuit breakers (MasterPact MTZ1 L1 or ComPact NS L or LB).

Coordination between circuit breakers

Introduction to selectivity

Selectivity limits given in the selectivity tables are the best performance that can be achieved between two given circuit breakers. When the upstream circuit breaker is adjustable and its setting values are not specified, it is considered that it is set to its maximum values.
Nevertheless, high selectivity performance is possible with lower settings.

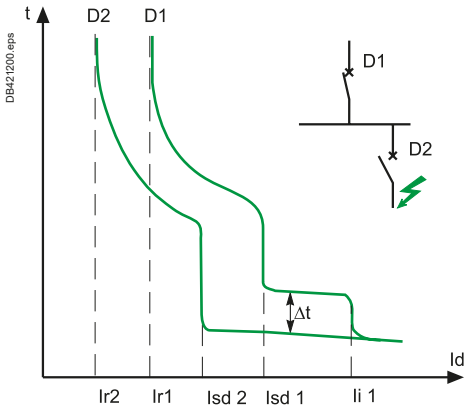
How to use the tables

Basic rules of selectivity for overload and short-circuit

Requisite conditions

The values indicated in the tables (for 220, 380, 415 and 440 V AC 50/60Hz) are met if the following conditions are respected:

Upstream (D1)	Downstream (D2)	Thermal protection Ir up/Ir down	Magnetic protection Im up/Im down
TM	TM or MCB	1.6	2
	MicroLogic	1.6	1.5
	MA + Separate overload relay	3	2
	Thermal-magnetic motor circuit breaker	3	2
MicroLogic	TM or MCB	1.6	1.5
	MicroLogic	1.3	1.5
	MA + Separate overload relay	3	1.5
	Thermal-magnetic motor circuit breaker	3	1.5
TM-DC	TM TM-DC or MCB	3	2



Additional conditions for trip units with adjustable settings

Long time (tr)
The tables in the following pages show the limit of selectivity assuming the long time setting tr is set at the maximum value.
Different adjustment of tr may be used according to the following rules :
- tr ⩾ 8 for MicroLogic 5.X upstream a TM circuit breaker.
- tr_up > tr_down for MicroLogic 5.X upstream another MicroLogic 5.X or check curves are not overlapping.

Short time trip pickup current (Isd)
The tables in the following pages show the limit of selectivity assuming the short time trip pickup current “Isd” of upstream circuit breaker is equal to 10 x Ir.
- When the limit of selectivity indicated in the table is 10 x Ir, the limit of selectivity is in fact the upstream magnetic threshold Isd.
- When selectivity is total, a different adjustment of Isd (or Im) may be used provided that the ratio between the magnetic thresholds indicated above is observed and the additional following rules are satisfied.

When downstream circuit breaker is a ComPact NSX with MicroLogic 2.2 or 2.3:
- upstream circuit breaker magnetic setting “Isd” (or Im) shall be higher than downstream fix instantaneous protection:

Downstream device trip unit	MicroLogic 2.2				MicroLogic 2.3	
MicroLogic Rating	40A	100A	160A	250A	400A	630A
Isd (or Im) minimum value for ComPact NSX, ComPact NS and MasterPact MicroLogic upstream ComPact NSX with Mic 2.x	600A	1500A	2400A	3000A	4800A	6900A

- or upstream circuit breaker shall be equipped with MicroLogic type 5 with $Isd_{up} \geqslant 1.5\ Isd_{down}$ and Tsd ⩾ 0.1

When downstream circuit breaker is a ComPact NS or MasterPact with MicroLogic 2.0, upstream circuit breaker shall be equipped with MicroLogic type 5, 6 or 7.0 with: $Isd_{up} \geqslant 1.5\ Isd_{down}$ and Tsd ⩾ 0.1 s.

Coordination between circuit breakers

Introduction to selectivity

Masterpact MTZ with Micrologic X control unit offers two options for instantaneous trip: "Standard" and Fast". Selectivity tables are provided with "Standard" setting.

See Micrologic X User guide for setting guidelines.

Instantaneous trip pickup current (Ii)
The selectivity tables show the limit of selectivity assuming the instantaneous trip pickup current is set to its maximum value or it is inhibited (category B circuit breaker only).
- When the limit of selectivity indicated in the table is 15 x In of the upstream device, the limit of selectivity is in fact the instantaneous trip pickup current of the upstream device.
- When selectivity is total ("T"), a different adjustment of Ii may be used provided that the ratio between the magnetic thresholds indicated above is observed and the additional following rules are applied:

Downstream device trip unit:	MicroLogic 2/4/5/6/7 .2				MicroLogic 2/4/5/6/7.3	
MicroLogic Rating	**40 A**	**100 A**	**160 A**	**250 A**	**400 A**	**630 A**
Ii minimum value for ComPact NSX, ComPact NS and MasterPact MicroLogic upstream ComPact NSX	2000 A	2250 A	2500 A	4000 A	6300 A	8000 A

Short time tripping delay (Tsd)
When the upstream and downstream circuit breakers are fitted with a MicroLogic 5.x,6.x, 7.x trip unit, the minimum non-tripping time of the upstream device must be superior to the maximum tripping time of the downstream device. This is obtained by staging Tsd:

Tsd D1 > Tsd D2 (One band) & I2t Off
The tables show the limit of selectivity assuming function I2t OFF. If this is not the case, the user must verify that the curves do not overlap.

Ground Fault Protection (GFP) (Ig, Tg)
When the upstream and downstream circuit breakers are fitted with a MicroLogic 6.x trip unit, the user must verify current and time selectivity:
- The setting of the tripping threshold of the upstream GFP is greater than that of the downstream GFP.
- The intentional time-delay setting for the upstream GFP is higher than the opening time of the downstream protection device. Furthermore, it is essential that the intentional time-delay applied to the upstream protection device observes the maximum insulation fault elimination time defined by NEC § 230.95 (i.e. 1 s for 3000 A).

Ig D1 ⩾ 1,3 Ig D2 & Tg D1 > Tg D2 (One band).

Circuit breaker with under-rated protection (MicroLogic trip unit with a lower rating than the frame)

ComPact NSX, MasterPact may be equipped with a MicroLogic with a rating lower than the frame (e.g. NSX250N MicroLogic 2.2 160 A).

Except when indicated differently, tables are given for a circuit breaker and a trip unit with the same rated current (e.g. NSX250N MicroLogic 2.2 250 A).

Performance of different configurations can be obtained, when not given in the tables with the following rules:

- For upstream circuit breaker: the column based on the MicroLogic trip unit rating shall be considered
- For downstream circuit breaker: the line based on the circuit breaker frame shall be considered.

Example
- Upstream: ComPact NSX630F MicroLogic 2.3 400A
- Downstream: ComPact NXS250N MicroLogic 2.2 160A.

Selectivity limit will be equal to NSX400F MicroLogic 400/NSX250N MicroLogic 250 Ir = 160 A.
So 4,8 kA according to table page A-79.

Coordination between circuit breakers

Introduction to selectivity

PB119531_L15.eps

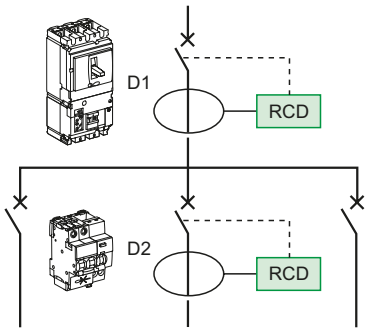
PB119549_L18.eps

Example of circuit breaker with add-on module iC40 + Vigi.

PB100436_26.eps

Example of separate earth leakage relay RHU.

DB421192.eps



Selectivity of RCDs

When circuit breakers are equipped with RCD function, selectivity tables are valid for short-circuit and earth fault with high amplitude current.

Residual Current Devices are by design very sensitive to fault and shall be coordinated properly to achieve total selectivity in addition to overcurrent protection.

Schneider Electric proposes a wide range of solutions with the RCD function:

- ■ Circuit breaker Add-On Residual Current Device (Vigi module)
- ■ Circuit breaker with integrated RCD function
- □ Residual Current circuit breaker (RCBO) like iCV40,
- □ Earth Leakage circuit breaker (ELCB) like ComPact NSXm with MicroLogic 4.1, ComPact NSX MicroLogic 4.x or 7.x, MasterPact and ComPact with MicroLogic 7.0* ,
- ■ Circuit breaker with separate earth leakage relay (any circuit breaker with separated VigiPact RH● range)
- ■ Residual current circuit breaker (no overcurrent) like iID range.

All these devices from Schneider Electric are following by design the same rules for sensitivity and tripping time even if they are covered by different standard (IEC/EN 61009-1, IEC/EN 60947-2 Annex B or Annex M, IEC 61008). So whatever the type of RCD is, the following rules apply:

- ■ the sensitivity of the upstream residual current device must be at least equal to three times the sensitivity of the downstream residual current device
- ■ the upstream residual current device must be:
- □ of the selective (S) type (or setting) if the downstream residual current device is an instantaneous type,
- □ of the delayed (R) type (or setting) if the downstream residual current device is a selective type. The minimum non-tripping time of the upstream device will therefore be greater than the maximum tripping time of the downstream device for all current values.

$I\Delta n\ D1 \geq 3 \times I\Delta n\ D2$ & $\Delta t\ (D1) > \Delta t\ (D2)$.

VigiPacT and MicroLogic Earth leakage protection accuracy is better than the minimum required by standard, allowing smaller ratio between thresholds. Selectivity between Schneider Electric RCDs is met if settings follow the following rules.

Upstream	Downstream	Ratio IΔn_up / IΔn_down	Time delay
ComPact NS, NSX, NSxm & MasterPact MicroLogic 4.*, 7.*	ComPact NS, NSX, NSxm & MasterPact MicroLogic 4.*, 7.*	2	Δt_upstream > Max break time downstream
	VigiPacT RH*	2	
	Other RCDs from Schneider Electric (Vigi Add on, RCCB and RCBO)	3	
VigiPacT RH*	MicroLogic 4.*, 7.* (ComPact & MasterPact)	1,5	
	VigiPacT RH*	1,25	
	Other RCDs from Schneider Electric (Vigi Add on, RCCB and RCBO)	1,5	
Other RCD from Schneider Electric (Vigi Add on, RCCB and RCBO)	VigiPacT RH*	2	
	Other RCDs from Schneider Electric (Vigi Add on, RCCB and RCBO)	3	

Table 1: Schneider Electric RCDs selectivity rules.

Coordination between circuit breakers

Introduction to selectivity

Range	Device	Standard IEC/EN			Type	Operating range	
		61008	61009-1 61009-2-1	60947-2		Sensitivity	Operating Time
Acti **9** iID	iID RCCB	■			AC/A/SI/B	Fix	Inst / S
Acti **9** iC60	iC60 RCBO		■		AC/A/SI	Fix	Inst / S
Acti **9** iDPN/iC40	iDPN Vigi / iCV40		■		AC/A/SI	Fix	Inst / S
Acti **9** iDPN/iC40	iDPN /iC40 Vigi add on		■		AC/A/SI	Fix	Inst / S
Acti **9** iC60	iC60 Vigi add on		■		AC/A/SI	Fix	Inst / S
Acti **9** C120	C120 Vigi add on		■		AC/A/SI	Fix	Inst / S
Multi9 NG125	NG125 Vigi add on		■	■ (An. B)	AC/A/SI	Fix / Adj	Inst / S / R
ComPact NSX	NSXm160 Mic. 4.1			■ (An. B)	A	Adj 30mA-1A	Adjustable
	NSX100-250 Vigi add on			■ (An. B)	A	Fix or adj 30mA-10A	Fix or adjustable
	NSX100-250 Mic 4.2/7.2			■ (An. B)	A	Adj 30mA-10A	Adjustable
	NSX400-630 Vigi add on			■ (An. B)	A	Adj 300mA-30A	Adjustable
	NSX400-630 Mic 4.3/7.3			■ (An. B)	A	Adj 300mA-30A	Adjustable
ComPact	NS630-1600 MicroLogic 7.0*			■ (An. B)	A	Adj 500mA-30A	Adjustable
MasterPact	MTZ1/2 MicroLogic 7.0X			■ (An. B)	A	Adj 500mA-30A	Adjustable
VigiPact	VigiPact RH + toroid			■ (An. M)	A	Fix or adj 30mA-30A	Fix or adjustable

IEC61008 and IEC61009-1 +IEC 61009-2-1 devices are designed for household and similar uses.
IEC60947-2 Annex B or M device shall be installed only in part of the installation accessible only to instructed persons (BA4) or skilled persons (BA5).

Coordination between circuit breakers

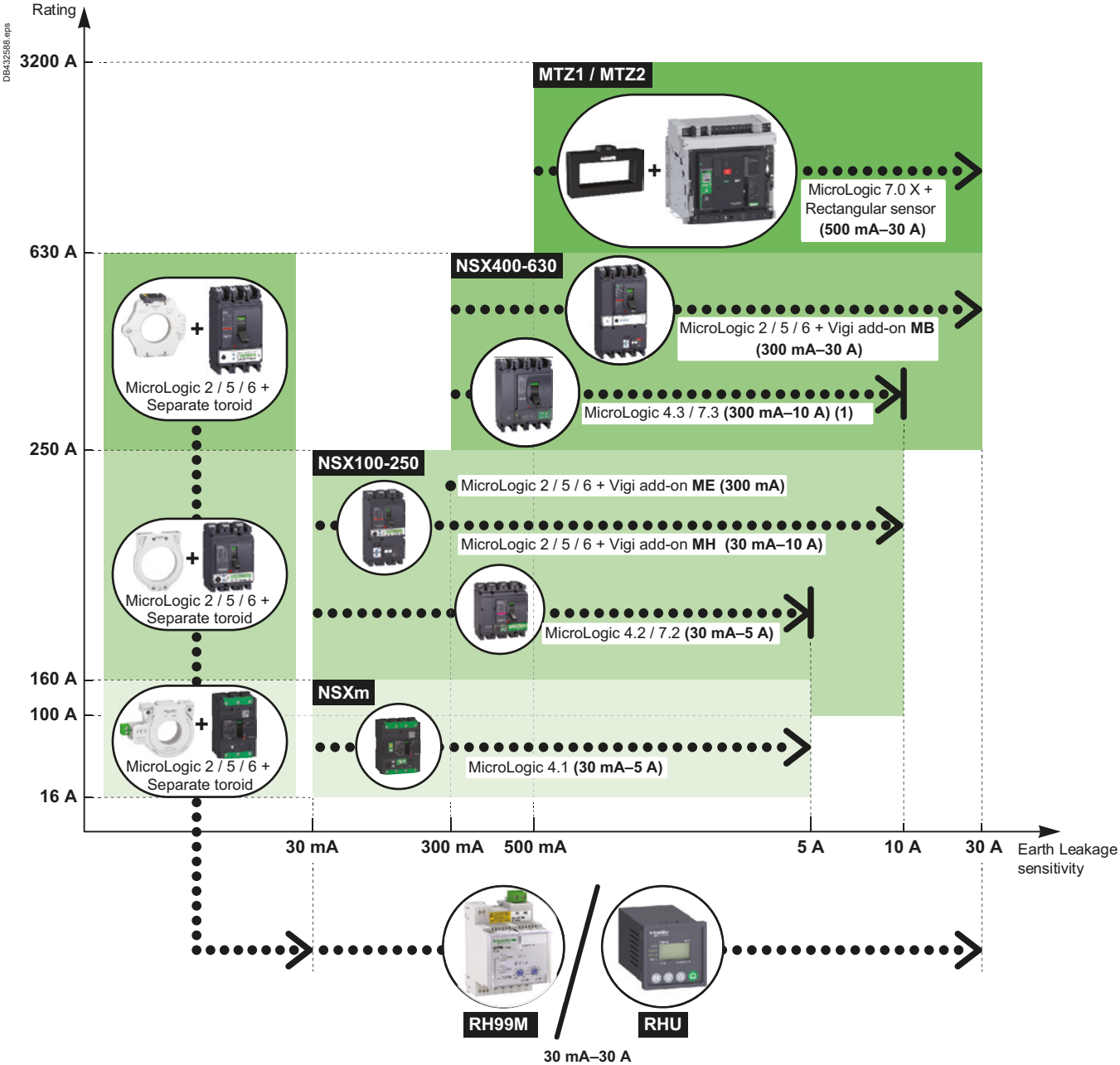
Introduction to selectivity

PB119128_L46.eps

PB119574_L19.eps

Example of circuit breakers with integrated earth leakage protection: ComPact NSX with MicroLogic 7.2A, iCV40.

DB432588.eps



(1) Residual Current Monitoring version also available for MicroLogic 4.2 7.2 4.3 7.3 ("AL" version).

Coordination between circuit breakers

Introduction to selectivity

EIG-000/EN-1_couv.eps

For more detail on RCD and selectivity of RCD see Electrical installation guide Chapter F or www.electrical-installation.org.

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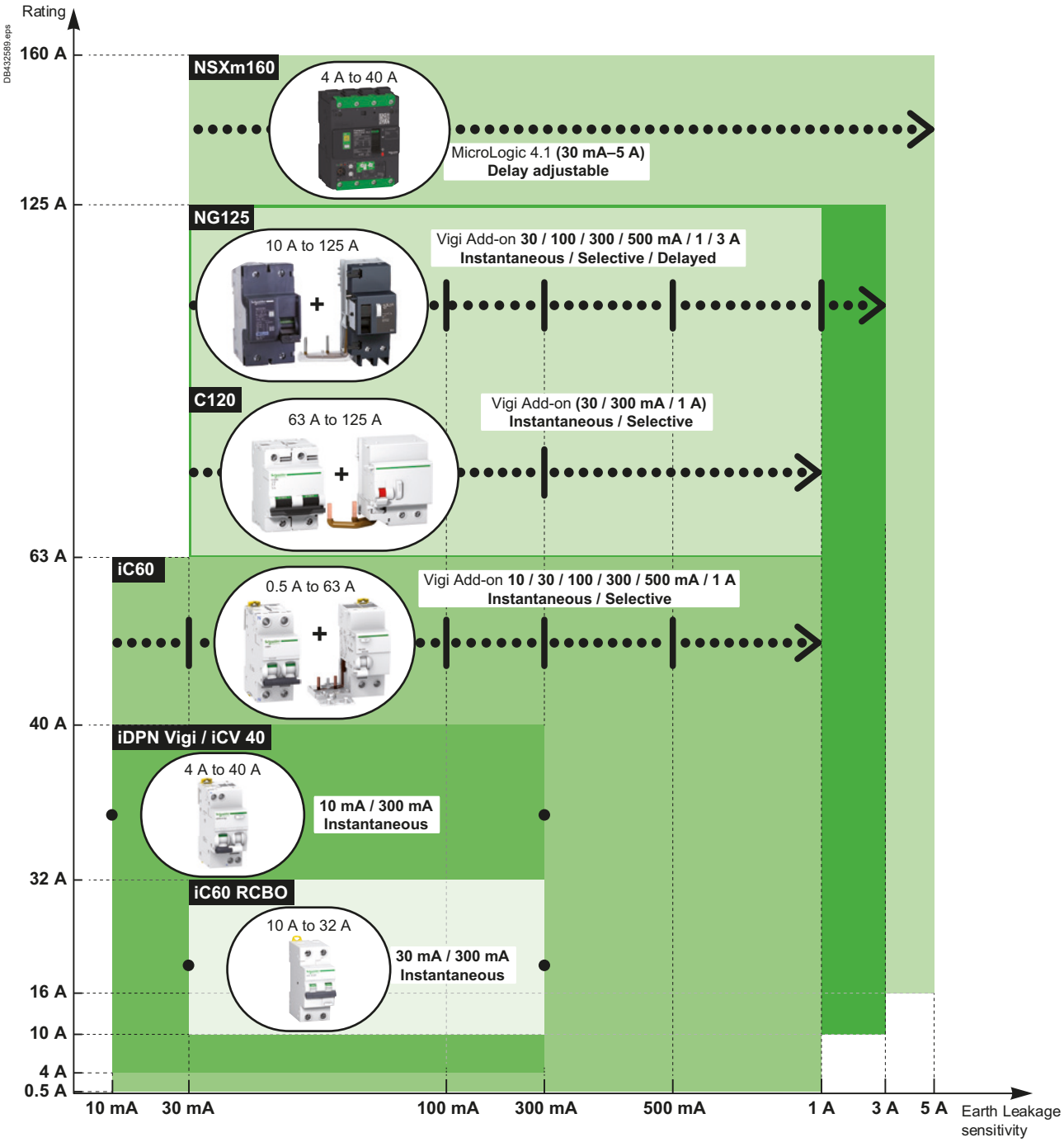


Coordination between circuit breakers

Introduction to selectivity

A

Using the selectivity tables

Depending on the network and the type of downstream circuit breaker, the selection table below indicates which table should be consulted to find out the selectivity value.
The selectivity values are given in colour-coded tables.
■ For 220-240 V/380-415 V 50/60 Hz systems:
□ in the case of a 2P downstream circuit breaker in a single-phase network (220-240 V), refer to the light green tables,
□ in the case of 1P, 1P+N, 3P, 3P+N, 4P and 2P circuit breakers in a two-phase network (380-415 V), refer to the dark green tables.

Selection table

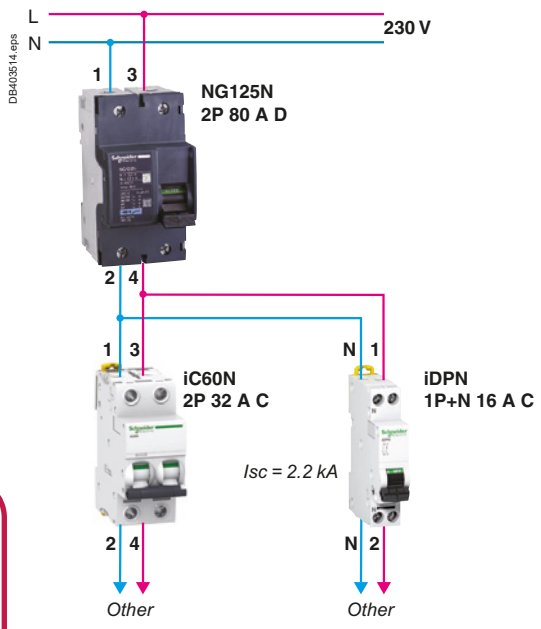
		Upstream network		
		DB123996.eps L1 N	DB123998.eps L1 L2 L3 N	DB123997.eps L1 L2 L3
Type of Downstream network	**Type of Downstream protection device**	**Ph/N 220-240 V**	**Ph/N 220-240 V** **Ph/Ph 380-415 V**	**Ph/Ph 380-415 V**
DB124079.eps N L1	DB123991.eps 2P			
	DB124191.eps 1P / DB123992.eps 1P+N			
DB124192.eps L1 L2	DB123991.eps 2P			
DB124080.eps L1 L2 L3	DB123993.eps 3P			
DB124081.eps N L1 L2 L3	DB123994.eps 4P			
	DB123993.eps 3P / DB123995.eps 3P+N			

Note: this selection table shows you the colour.
By taking your downstream protection device, the type of upstream network and its voltage you can refer to the corresponding selectivity table.

Coordination between circuit breakers

Introduction to selectivity

Example: solution diagram



Upstream we have a NG125N 80 A 2P curve D and downstream an iC60N 32 A 2P curve C. The network is 230 V between phase and neutral. By referring to the light green table on the selectivity page for NG125N curve D with iC60 downstream, we find 2200 A.

If the downstream product is replaced by an iDPN 1P+N curve C, you will use the dark green table for NG125N curve D and iDPN1P+N downstream. The selectivity level is 2400 A for a 16 A.

Specifications

We want to achieve continuity of service in the event of a fault downstream of the NG125N 80 A. This circuit has an Isc of 2.2 kA under a voltage of 230 V.
By referring to the table for 230 V, 1P+N network, we find that for an upstream NG125N curve D with a rating of 80 A, we can have total selectivity up to 16 A if we use an iC60N 1P+N and up to 32 A with an iC60N 2P.

Upstream		**NG125N/H/L** Curve D										
In (A)		**10**	**16**	**20**	**25**	**32**	**40**	**50**	**63**	**80**	**100**	**125**
Downstream	**2P (220-240 V) single-phase network**											
Selectivity limit (A)												
iC60 N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	T	T	T	T	T	T	T	T	T	T	T
	2	1200	T	T	T	T	T	T	T	T	T	T
	3	21	3400	3400	T	T	T	T	T	T	T	T
	4	18	1200	1300	5800	5600	T	T	T	T	T	T
	6	15	700	720	1900	1900	6000	11000	T	T	T	T
	10		22	480	1200	1200	2200	4200	10000	T	T	T
	13			28	51	900	1800	3000	7300	8000	T	T
	16				35	740	1300	2200	4700	5400	T	T
	20					46	88	1700	3500	3500	6900	T
	25						56	600	2500	2500	4600	6800
	32							80	2000	2200	3400	4400
	40								756	1900	2900	3500
	50									960	2300	2800
	63										2300	2800

4000 Selectivity limit = 4 kA.

T Total selectivity , up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Is > Isc
Total selectivity

Coordination between circuit breakers

Introduction to selectivity

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Contents

Downstream		Upstream											
Type		iDPN, iDPN N			iC40, iC40N			iC60N/H/L			NG125N/H/L, C120N/H		
	Curve	B	C	D	B	C	D	B	C	D	B	C	D
iDPN iDPN N	B	page A-17	page A-18	page A-19	-	-	-	page A-26	page A-27	page A-28	page A-47	page A-48	page A-49
	C	page A-17	page A-18	page A-19	-	-	-	page A-26	page A-27	page A-28	page A-47	page A-48	page A-49
	D	page A-17	page A-18	page A-19	-	-	-	page A-26	page A-27	page A-28	page A-47	page A-48	page A-49
iDPN N vigi iDPN H vigi	B	page A-17	page A-18	page A-19	-	-	-	page A-26	page A-27	page A-28	page A-47	page A-48	page A-49
	C	page A-17	page A-18	page A-19	-	-	-	page A-26	page A-27	page A-28	page A-47	page A-48	page A-49
iC40 iC40 N	B	-	-	-	page A-20	page A-21	page A-22	page A-29	page A-30	page A-31	page A-50	page A-51	page A-52
	C	-	-	-	page A-20	page A-21	page A-22	page A-29	page A-30	page A-31	page A-50	page A-51	page A-52
	D	-	-	-	page A-20	page A-21	page A-22	page A-29	page A-30	page A-31	page A-50	page A-51	page A-52
iCV40 N	B	-	-	-	page A-23	page A-24	page A-25	page A-32	page A-33	page A-34	page A-50	page A-51	page A-52
	C	-	-	-	page A-23	page A-24	page A-25	page A-32	page A-33	page A-34	page A-50	page A-51	page A-52
iC60 N/H/L	B	-	-	-	-	-	-	page A-35 page A-36	page A-37 page A-38	page A-39 page A-40	page A-53 page A-54	page A-55 page A-56	page A-57 page A-58
	C	-	-	-	-	-	-	page A-35 page A-36	page A-37 page A-38	page A-39 page A-40	page A-53 page A-54	page A-55 page A-56	page A-57 page A-58
	D	-	-	-	-	-	-	page A-35 page A-36	page A-37 page A-38	page A-39 page A-40	page A-53 page A-54	page A-55 page A-56	page A-57 page A-58
iC60 RCBO	B	-	-	-	-	-	-	page A-41 page A-42	page A-43 page A-44	page A-45 page A-46	page A-59 page A-60	page A-61 page A-62	page A-63 page A-64
	C	-	-	-	-	-	-	page A-41 page A-42	page A-43 page A-44	page A-45 page A-46	page A-59 page A-60	page A-61 page A-62	page A-63 page A-64
C120, NG125	B	-	-	-	-	-	-	-	-	-	page A-65 page A-66	page A-67 page A-68	page A-69 page A-70
	C	-	-	-	-	-	-	-	-	-	page A-65 page A-66	page A-67 page A-68	page A-69 page A-70
	D	-	-	-	-	-	-	-	-	-	page A-65 page A-66	page A-67 page A-68	page A-69 page A-70

Selectivity between circuit breakers

In the following tables we show the level of selectivity between two LV circuits that are protected by circuit breakers.

This selectivity will be either:

- total: represented by a T (up to the breaking capacity of the downstream device)
- partial: selectivity limit current (Is) indicated
- ☐: no selectivity.

Selectivity table

Upstream: iDPN, iDPN N curve B
Downstream: iDPN/iDPN N curves B, C, D, iDPN N Vigi / iDPN H vigi curves B, C

220-240/380-415 V AC

Upstream		iDPN, iDPN N Curve B										
In (A)		1	2	3	4	6	10	16	20	25	32	40
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iDPN **iDPN N** **iDPN N vigi** **iDPN H vigi** Curve B	**1**		8	12	20	30	70	150	250	350	610	980
	2			12	16	30	60	110	180	240	340	450
	3					30	40	64	140	190	280	350
	4					10	40	64	120	160	220	280
	6						40	64	80	100	130	160
	10							64	80	100	130	160
	16									100	130	160
	20										130	160
	25											160
Selectivity limit (A)												
iDPN **iDPN N** **iDPN N vigi** **iDPN H vigi** Curve C	**1**		6	12	20	30	70	150	250	350	610	980
	2				12	30	60	110	180	240	340	450
	3					13	40	64	140	190	280	350
	4						32	64	120	160	220	280
	6							51	80	100	130	160
	10								64	80	130	160
	16										102	128
	20											128
Selectivity limit (A)												
iDPN **iDPN N** Curve D	**1**				12	30	70	150	250	350	610	980
	2					19	60	110	180	240	340	450
	3						32	64	140	190	280	350
	4							51	120	160	220	280
	6								64	80	130	160
	10										102	128
	16											128

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iDPN, iDPN N curve C
Downstream: iDPN/iDPN N curves B, C, D, iDPN N Vigi / iDPN H Vigi curves B, C

220-240/380-415 V AC

Upstream		iDPN, iDPN N Curve C										
In (A)		1	2	3	4	6	10	16	20	25	32	40
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iDPN **iDPN N** **iDPN N vigi** **iDPN H vigi** Curve B	**1**		16	24	32	70	180	400	630	1200	T	T
	2			24	32	48	140	270	350	510	820	830
	3				32	48	80	210	290	380	630	650
	4					48	80	130	240	320	480	510
	6						80	130	160	200	320	380
	10							130	160	200	260	320
	16								160	200	260	320
	20										260	320
	25											320
Selectivity limit (A)												
iDPN **iDPN N** **iDPN N vigi** **iDPN H vigi** Curve C	**1**		16	24	32	70	180	400	630	1200	T	T
	2			24	32	48	140	270	350	510	820	830
	3				9	48	80	210	290	380	630	650
	4					10	80	130	240	320	480	510
	6						80	130	160	200	320	380
	10							130	160	200	260	320
	16								45	200	260	320
	20										260	320
	25											320
Selectivity limit (A)												
iDPN **iDPN N** Curve D	**1**		16	24	32	70	180	400	630	1200	T	T
	2				25	48	140	270	350	510	820	830
	3					13	80	210	290	380	630	650
	4						80	130	240	320	480	510
	6							128	160	200	320	380
	10								128	200	260	320
	16									141	153	320
	20											256

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iDPN, iDPN N curve D
Downstream: iDPN/iDPN N curves B, C, D, iDPN N Vigi / iDPN H Vigi curves B, C

220-240/380-415 V AC

Upstream		iDPN, iDPN N Curve D										
In (A)		1	2	3	4	6	10	16	20	25	32	40
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iDPN **iDPN N** **iDPN N vigi** **iDPN H vigi** Curve B	**1**		24	36	70	170	380	1200	T	T	T	T
	2			36	48	130	250	490	780	1100	1600	2300
	3				48	72	210	410	640	890	1400	1900
	4					72	120	330	500	670	970	1400
	6						120	190	390	520	740	1000
	10							190	240	300	580	810
	16									300	380	480
	20										380	480
	25											480
	32											480
Selectivity limit (A)												
iDPN **iDPN N** **iDPN N vigi** **iDPN H vigi** Curve C	**1**		24	36	70	170	380	1200	T	T	T	T
	2			36	48	130	250	490	780	1100	1600	2300
	3				9	72	210	410	640	890	1400	1900
	4					10	120	330	500	670	970	1400
	6							190	390	520	740	1000
	10							190	240	300	580	810
	16									300	380	480
	20										380	480
	25											480
Selectivity limit (A)												
iDPN **iDPN N** Curve D	**1**		24	36	70	170	380	1200	T	T	T	T
	2			36	48	130	250	490	780	1100	1600	2300
	3					14	210	410	640	890	1400	1900
	4					10	120	330	500	670	970	1400
	6						120	190	390	520	740	1000
	10							190	240	300	580	810
	16									300	380	480
	20										380	480
	25											480

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC40, iC40 N curve B
Downstream: iC40, iC40 N curves B, C, D

220-240/380-415 V AC

Upstream		iC40, iC40 N Curve B										
In (A)		1	2	3	4	6	10	16	20	25	32	40
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iC40 iC40 N Curve B	**2**			12	16	30	60	110	180	240	340	450
	4					10	40	64	120	160	220	280
	6						40	64	80	100	130	160
	10							64	80	100	130	160
	13									100	130	160
	16									100	130	160
	20										130	160
	25											160
Selectivity limit (A)												
iC40 iC40 N Curve C	**2**				12	30	60	110	180	240	340	450
	4						32	64	120	160	220	280
	6							51	80	100	130	160
	10								64	80	130	160
	13										102	128
	16										102	128
	20											128
Selectivity limit (A)												
iC40 iC40 N Curve D	**2**					19	60	110	180	240	340	450
	4							51	120	160	220	280
	6								64	80	130	160
	10										102	128
	13											128
	16											128

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC40, iC40 N curve C
Downstream: iC40, iC40 N curves B, C, D

220-240/380-415 V AC

Upstream		iC40, iC40 N Curve C										
In (A)		1	2	3	4	6	10	16	20	25	32	40
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iC40 iC40 N Curve B	**2**			24	32	48	140	270	350	510	820	830
	4					48	80	130	240	320	480	510
	6						80	130	160	200	320	380
	10							130	160	200	260	320
	13								160	200	260	320
	16								160	200	260	320
	20										260	320
	25											320
Selectivity limit (A)												
iC40 iC40 N Curve C	**2**			24	32	48	140	270	350	510	820	830
	4					10	80	130	240	320	480	510
	6						80	130	160	200	320	380
	10							130	160	200	260	320
	13								45	200	260	320
	16								45	200	260	320
	20										260	320
	25											320
Selectivity limit (A)												
iC40 iC40 N Curve D	**2**				25	48	140	270	350	510	820	830
	4						80	130	240	320	480	510
	6							128	160	200	320	380
	10								128	200	260	320
	13									141	153	320
	16									141	153	320
	20											256

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC40, iC40 N curve D
Downstream: iC40, iC40 N curves B, C, D

220-240/380-415 V AC

Upstream		iC40, iC40 N Curve D										
In (A)		1	2	3	4	6	10	16	20	25	32	40
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iC40 iC40 N Curve B	**2**			36	48	130	250	490	780	1100	1600	2300
	4					72	120	330	500	670	970	1400
	6						120	190	390	520	740	1000
	10							190	240	300	580	810
	13									300	380	480
	16									300	380	480
	20										380	480
	25											480
	32											480
Selectivity limit (A)												
iC40 iC40 N Curve C	**2**			36	48	130	250	490	780	1100	1600	2300
	4					10	120	330	500	670	970	1400
	6							190	390	520	740	1000
	10							190	240	300	580	810
	13									300	380	480
	16									300	380	480
	20										380	480
	25											480
Selectivity limit (A)												
iC40 iC40 N Curve D	**2**			36	48	130	250	490	780	1100	1600	2300
	4					10	120	330	500	670	970	1400
	6						120	190	390	520	740	1000
	10							190	240	300	580	810
	13									300	380	480
	16									300	380	480
	20										380	480
	25											480

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC40, iC40 N curve B
Downstream: iCV40 N, iCV40 H curves B, C

220-240/380-415 V AC

Upstream		iC40, iC40 N Curve B										
In (A)		1	2	3	4	6	10	16	20	25	32	40
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iCV40 N **iCV40 H** Curve B	**2**			12	16	30	60	110	180	240	340	450
	4					10	40	64	120	160	220	280
	6						40	64	80	100	130	160
	10							64	80	100	130	160
	13									100	130	160
	16									100	130	160
	20										130	160
	25											160
Selectivity limit (A)												
iCV40 N **iCV40 H** Curve C	**2**				12	30	60	110	180	240	340	450
	4						32	64	120	160	220	280
	6							51	80	100	130	160
	10								64	80	130	160
	13										102	128
	16										102	128
	20											128

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC40, iC40 N curve C
Downstream: iCV40 N, iCV40 H curves B, C

220-240/380-415 V AC

Upstream		iC40, iC40 N Curve C										
In (A)		1	2	3	4	6	10	16	20	25	32	40
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iCV40 N **iCV40 H** Curve B	**2**			24	32	48	140	270	350	510	820	830
	4					48	80	130	240	320	480	510
	6						80	130	160	200	320	380
	10							130	160	200	260	320
	13								160	200	260	320
	16								160	200	260	320
	20										260	320
	25											320
Selectivity limit (A)												
iCV40 N **iCV40 H** Curve C	**2**			24	32	48	140	270	350	510	820	830
	4					10	80	130	240	320	480	510
	6						80	130	160	200	320	380
	10							130	160	200	260	320
	13								45	200	260	320
	16								45	200	260	320
	20										260	320
	25											320

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC40, iC40 N curve D
Downstream: iCV40 N, iCV40 H curves B, C

220-240/380-415 V AC

Upstream		iC40, iC40 N Curve D										
In (A)		1	2	3	4	6	10	16	20	25	32	40
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iCV40 N **iCV40 H** Curve B	**2**			36	48	130	250	490	780	1100	1600	2300
	4					72	120	330	500	670	970	1400
	6						120	190	390	520	740	1000
	10							190	240	300	580	810
	13									300	380	480
	16									300	380	480
	20										380	480
	25											480
	32											480
Selectivity limit (A)												
iCV40 N **iCV40 H** Curve C	**2**			36	48	130	250	490	780	1100	1600	2300
	4					10	120	330	500	670	970	1400
	6							190	390	520	740	1000
	10							190	240	300	580	810
	13									300	380	480
	16									300	380	480
	20										380	480
	25											480

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve B

Downstream: iDPN/iDPN N curves B, C, D, iDPN N Vigi / iDPN H Vigi curves B, C

220-240/380-415 V AC

Upstream		iC60N/H/L Curve B												
In (A)		2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**1P+N**													
	3P, 3P+N													
Selectivity limit (A)														
iDPN	**1**	8	12	16	30	60	80	110	130	150	270	410	450	620
iDPN N	**2**		12	16	24	40	50	90	80	100	220	300	330	440
iDPN N Vigi	**3**				24	40	50	64	80	100	210	270	300	410
iDPN H Vigi	**4**				14	40	50	64	80	100	190	270	300	380
Curve B	**6**					40	50	64	80	100	130	240	250	250
	10							64	80	100	130	160	200	250
	16									100	130	160	200	250
	20										130	160	200	250
	25											160	200	250
	32												200	250
	40													250
Selectivity limit (A)														
iDPN	**1**		12	16	30	60	80	110	130	150	270	410	450	620
iDPN N	**2**			5	24	40	50	90	80	100	220	300	330	440
iDPN N Vigi	**3**				17	40	50	64	80	100	210	270	300	410
iDPN H Vigi	**4**					34	50	64	80	100	190	270	300	380
Curve C	**6**							47	80	100	130	240	250	250
	10								64	80	130	160	200	250
	16										102	128	200	250
	20											128	160	250
	25												160	201
	32													201
Selectivity limit (A)														
iDPN	**1**			12	30	60	80	110	130	150	270	410	450	620
iDPN N	**2**				19	40	50	90	80	100	220	300	330	440
Curve D	**3**					32	50	64	80	100	210	270	300	410
	4							51	80	100	190	270	300	380
	6								59	78	130	240	250	250
	10										102	128	200	250
	16											128	160	201
	20												160	201
	25													201

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve C
Downstream: iDPN/iDPN N curves B, C, D, iDPN N Vigi / iDPN H Vigi curves B, C

220-240/380-415 V AC

Upstream		iC60N/H/L Curve C													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**1P+N 3P, 3P+N**														
Selectivity limit (A)															
iDPN **iDPN N** **iDPN N Vigi** **iDPN H Vigi** Curve B	**1**		16	24	32	48	80	100	210	270	390	540	790	1500	1600
	2			24	32	48	80	100	130	160	300	410	540	910	930
	3				5	48	80	100	130	160	200	260	510	750	760
	4					48	80	100	130	160	200	260	480	720	760
	6						80	100	130	160	200	260	320	400	500
	10							100	130	160	200	260	320	400	500
	16										200	260	320	400	500
	20											260	320	400	500
	25												320	400	500
	32													400	500
	40														500
Selectivity limit (A)															
iDPN **iDPN N** **iDPN N Vigi** **iDPN H Vigi** Curve C	**1**		16	24	32	48	80	100	210	270	390	540	790	1500	1600
	2			24	32	48	80	100	130	160	300	410	540	910	930
	3					48	80	100	130	160	200	260	510	750	760
	4					14	80	100	130	160	200	260	480	720	760
	6						80	100	130	160	200	260	320	400	500
	10								130	160	200	260	320	400	500
	16										83	260	320	400	500
	20											260	320	400	500
	25												124	400	500
	32													163	500
	40														186
Selectivity limit (A)															
iDPN **iDPN N** Curve D	**1**		16	24	32	48	80	100	210	270	390	540	790	1500	1600
	2				25	48	80	100	130	160	300	410	540	910	930
	3						80	100	130	160	200	260	510	750	760
	4						80	100	130	160	200	260	480	720	760
	6							100	130	160	200	260	320	400	500
	10										200	260	320	400	500
	16										83	165	320	400	500
	20												151	400	500
	25													176	500
	32														255

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve D

Downstream: iDPN/iDPN N curves B, C, D, iDPN N Vigi / iDPN H Vigi curves B, C

220-240/380-415 V AC

Upstream		iC60N/H/L Curve D													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**1P+N**														
	3P, 3P+N														
Selectivity limit (A)															
iDPN	**1**		30	50	70	72	120	260	350	540	700	1100	1500	2000	2000
iDPN N	**2**			36	48	72	120	160	190	390	510	700	960	1500	2000
iDPN N Vigi	**3**				5	72	120	160	190	360	450	580	840	1200	1500
iDPN H Vigi	**4**					72	120	160	190	240	450	580	780	1100	1400
Curve B	**6**						120	160	190	240	300	380	720	1000	1200
	10							160	190	240	300	380	480	600	760
	16										300	380	480	600	760
	20											380	480	600	760
	25												480	600	760
	32													600	760
	40														760
Selectivity limit (A)															
iDPN	**1**		30	50	70	72	120	260	350	540	700	1100	1500	2000	2000
iDPN N	**2**			36	48	72	120	160	190	390	510	700	960	1500	2000
iDPN N Vigi	**3**				5	72	120	160	190	360	450	580	840	1200	1500
iDPN H Vigi	**4**					14	120	160	190	240	450	580	780	1100	1400
Curve C	**6**						120	160	190	240	300	380	720	1000	1200
	10							34	190	240	300	380	480	600	760
	16										300	380	480	600	760
	20											380	480	600	760
	25												124	600	760
	32													163	760
	40														186
Selectivity limit (A)															
iDPN	**1**		30	50	70	72	120	260	350	540	700	1100	1500	2000	2000
iDPN N	**2**			36	48	72	120	160	190	390	510	700	960	1500	2000
Curve D	**3**					17	120	160	190	360	450	580	840	1200	1500
	4					14	120	160	190	240	450	580	780	1100	1400
	6						120	160	190	240	300	380	720	1000	1200
	10								57	240	300	380	480	600	760
	16										83	380	480	600	760
	20											155	151	600	760
	25												124	180	760
	32													163	760
	40														186

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve B
Downstream: iC40, iC40 N curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve B												
In (A)		2	3	4	6	10	13	16	20	35	32	40	50	63
Downstream	**1P+N 3P, 3P+N**													
Selectivity limit (A)														
iC40 iC40 N Curve B	**2**		12	16	24	40	50	90	80	100	220	300	330	440
	4				14	40	50	64	80	100	190	270	300	380
	6					40	50	64	80	100	130	240	250	250
	10							64	80	100	130	160	200	250
	13									100	130	160	200	250
	16									100	130	160	200	250
	20										130	160	200	250
	25											160	200	250
	32												200	250
	40													250
Selectivity limit (A)														
iC40 iC40 N Curve C	**2**			5	24	40	50	90	80	100	220	300	330	440
	4					34	50	64	80	100	190	270	300	380
	6							47	80	100	130	240	250	250
	10								64	80	130	160	200	250
	13										102	128	200	250
	16										102	128	200	250
	20											128	160	250
	25												160	201
	32													201
Selectivity limit (A)														
iC40 iC40 N Curve D	**2**				19	40	50	90	80	100	220	300	330	440
	4							51	80	100	190	270	300	380
	6								59	78	130	240	250	250
	10										102	128	200	250
	16											128	160	201
	20												160	201
	25													201

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve C
Downstream: iC40, iC40 N curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve C												
In (A)		2	3	4	6	10	13	16	20	35	32	40	50	63
Downstream	**1P+N** **3P, 3P+N**													
Selectivity limit (A)														
iC40 **iC40 N** Curve B	**2**		24	32	48	80	100	130	160	300	410	540	910	930
	4				48	80	100	130	160	200	260	480	720	760
	6					80	100	130	160	200	260	320	400	500
	10						100	130	160	200	260	320	400	500
	13									200	260	320	400	500
	16									200	260	320	400	500
	20										260	320	400	500
	25											320	400	500
	32												400	500
	40													500
Selectivity limit (A)														
iC40 **iC40 N** Curve C	**2**		24	32	48	80	100	130	160	300	410	540	910	930
	4				14	80	100	130	160	200	260	480	720	760
	6					80	100	130	160	200	260	320	400	500
	10							130	160	200	260	320	400	500
	13									83	260	320	400	500
	16									83	260	320	400	500
	20										260	320	400	500
	25											124	400	500
	32												163	500
	40													186
Selectivity limit (A)														
iC40 **iC40 N** Curve D	**2**			25	48	80	100	130	160	300	410	540	910	930
	4					80	100	130	160	200	260	480	720	760
	6						100	130	160	200	260	320	400	500
	10									200	260	320	400	500
	13									83	165	320	400	500
	16									83	165	320	400	500
	20											151	400	500
	25												176	500
	32													255
	40													

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve D
Downstream: iC40, iC40 N curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve D												
In (A)		2	3	4	6	10	13	16	20	35	32	40	50	63
Downstream	**1P+N 3P, 3P+N**													
Selectivity limit (A)														
iC40	**2**		36	48	72	120	160	190	390	510	700	960	1500	2000
iC40 N	**4**				72	120	160	190	240	450	580	780	1100	1400
Curve B	**6**					120	160	190	240	300	380	720	1000	1200
	10						160	190	240	300	380	480	600	760
	13									300	380	480	600	760
	16									300	380	480	600	760
	20										380	480	600	760
	25											480	600	760
	32												600	760
	40													760
Selectivity limit (A)														
iC40	**2**		36	48	72	120	160	190	390	510	700	960	1500	2000
iC40 N	**4**				14	120	160	190	240	450	580	780	1100	1400
Curve C	**6**					120	160	190	240	300	380	720	1000	1200
	10						34	190	240	300	380	480	600	760
	13									300	380	480	600	760
	16									300	380	480	600	760
	20										380	480	600	760
	25											124	600	760
	32												163	760
	40													186
Selectivity limit (A)														
iC40	**2**		36	48	72	120	160	190	390	510	700	960	1500	2000
iC40 N	**4**				14	120	160	190	240	450	580	780	1100	1400
Curve D	**6**					120	160	190	240	300	380	720	1000	1200
	10							57	240	300	380	480	600	760
	13									83	380	480	600	760
	16									83	380	480	600	760
	20										155	151	600	760
	25											124	180	760
	32												163	760
	40													186

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve B
Downstream: iCV40 N, iCV40 H curves B, C

220-240/380-415 V AC

Upstream		iC60N/H/L Curve B												
In (A)		2	3	4	6	10	13	16	20	35	32	40	50	63
Downstream	**1P+N 3P, 3P+N**													
Selectivity limit (A)														
iCV40 N **iCV40 H** Curve B	**2**		12	16	24	40	50	90	80	100	220	300	330	440
	4				14	40	50	64	80	100	190	270	300	380
	6					40	50	64	80	100	130	240	250	250
	10							64	80	100	130	160	200	250
	13									100	130	160	200	250
	16									100	130	160	200	250
	20										130	160	200	250
	25											160	200	250
	32												200	250
Selectivity limit (A)														
iCV40 N **iCV40 H** Curve C	**2**			5	24	40	50	90	80	100	220	300	330	440
	4					34	50	64	80	100	190	270	300	380
	6							47	80	100	130	240	250	250
	10								64	80	130	160	200	250
	13										102	128	200	250
	16										102	128	200	250
	20											128	160	250
	25												160	201
	32													201

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve C
Downstream: iCV40 N, iCV40 H curves B, C

220-240/380-415 V AC

Upstream		iC60N/H/L Curve C												
In (A)		2	3	4	6	10	13	16	20	35	32	40	50	63
Downstream	**1P+N**													
	3P, 3P+N													
Selectivity limit (A)														
iCV40 N	**2**		24	32	48	80	100	130	160	300	410	540	910	930
iCV40 H	**4**				48	80	100	130	160	200	260	480	720	760
Curve B	**6**					80	100	130	160	200	260	320	400	500
	10						100	130	160	200	260	320	400	500
	13									200	260	320	400	500
	16									200	260	320	400	500
	20										260	320	400	500
	25											320	400	500
	32												400	500
Selectivity limit (A)														
iCV40 N	**2**		24	32	48	80	100	130	160	300	410	540	910	930
iCV40 H	**4**				14	80	100	130	160	200	260	480	720	760
Curve C	**6**					80	100	130	160	200	260	320	400	500
	10							130	160	200	260	320	400	500
	13									83	260	320	400	500
	16									83	260	320	400	500
	20										260	320	400	500
	25											124	400	500
	32												163	500

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve D
Downstream: iCV40 N, iCV40 H curves B, C

A

220-240/380-415 V AC

Upstream		iC60N/H/L Curve D												
In (A)		2	3	4	6	10	13	16	20	35	32	40	50	63
Downstream	**1P+N**													
	3P, 3P+N													
Selectivity limit (A)														
iCV40 N	**2**		36	48	72	120	160	190	390	510	700	960	1500	2000
iCV40 H	**4**				72	120	160	190	240	450	580	780	1100	1400
Curve B	**6**					120	160	190	240	300	380	720	1000	1200
	10						160	190	240	300	380	480	600	760
	13									300	380	480	600	760
	16									300	380	480	600	760
	20										380	480	600	760
	25											480	600	760
	32												600	760
														760
Selectivity limit (A)														
iCV40 N	**2**		36	48	72	120	160	190	390	510	700	960	1500	2000
iCV40 H	**4**				14	120	160	190	240	450	580	780	1100	1400
Curve C	**6**					120	160	190	240	300	380	720	1000	1200
	10						34	190	240	300	380	480	600	760
	13									300	380	480	600	760
	16									300	380	480	600	760
	20										380	480	600	760
	25											124	600	760
	32												163	760

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve B
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve B													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**														
Selectivity limit (A)															
iC60 N/H/L Curve B	**0.5**	4	10	40	60	T	T	T	T	T	T	T	T	T	T
	1		10	12	16	40	70	120	170	210	300	780	1300	1700	4000
	2			12	16	30	60	90	130	140	200	370	520	630	960
	3					30	40	70	90	120	150	250	380	460	670
	4					30	40	52	64	80	100	250	310	380	470
	6						40	52	64	80	100	190	290	300	440
	10								64	80	100	130	160	200	380
	13									80	100	130	160	200	250
	16										100	130	160	200	250
	20											130	160	200	250
	25												160	200	250
	32													200	250
	40														250
Selectivity limit (A)															
iC60 N/H/L Curve C	**0.5**		10	40	60	T	T	T	T	T	T	T	T	T	T
	1				16	30	70	120	170	210	300	780	1300	1700	4000
	2				16	18	60	90	130	160	200	370	520	630	960
	3					15	40	70	90	120	150	250	380	460	670
	4						27	52	64	80	100	250	310	380	470
	6								51	80	100	190	290	300	440
	10									64	80	130	160	200	250
	13											102	160	200	250
	16											102	128	200	250
	20												128	160	250
	25													160	200
	32														200
Selectivity limit (A)															
iC60 N/H/L Curve D	**0.5**			30	50	T	T	T	T	T	T	T	T	T	T
	1				12	30	60	120	170	210	300	780	1300	1700	4000
	2					19	40	70	110	140	180	370	520	630	860
	3						31	41	90	120	150	250	380	460	670
	4								48	80	100	220	310	340	470
	6									64	80	190	240	300	380
	10											100	128	200	250
	13												128	160	250
	16												128	160	200
	20													160	200
	25														200

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve B
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve B													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**2P (220-240 V) single-phase network**														
Selectivity limit (A)															
iC60 N/H/L Curve B	**0.5**	4	210	T	T	T	T	T	T	T	T	T	T	T	T
	1		10	20	20	60	110	260	530	790	2000	T	T	T	T
	2			12	16	30	70	140	200	250	400	880	1700	2500	5300
	3					30	40	90	130	160	250	550	800	1100	1400
	4						40	70	110	120	180	370	520	630	960
	6						40	52	64	80	100	270	380	460	630
	10								64	80	100	190	290	300	440
	13									80	100	130	160	200	380
	16										100	130	160	200	250
	20											130	160	200	250
	25												160	200	250
	32													200	250
	40														250
Selectivity limit (A)															
iC60 N/H/L Curve C	**0.5**		170	T	T	T	T	T	T	T	T	T	T	T	T
	1				20	60	110	260	530	790	2000	T	T	T	T
	2				16	18	70	140	200	250	400	880	1700	2500	5300
	3					15	40	90	130	160	230	550	800	1100	1400
	4						27	70	90	120	180	370	520	630	860
	6								51	80	100	230	380	410	630
	10									64	80	130	240	300	440
	13											102	160	200	380
	16											102	128	200	250
	20												128	160	250
	25													160	200
	32														200
Selectivity limit (A)															
iC60 N/H/L Curve D	**0.5**			T	T	T	T	T	T	T	T	T	T	T	T
	1				12	50	110	260	530	790	2000	T	T	T	T
	2					19	60	120	200	250	350	1100	1700	2500	5300
	3						31	41	110	140	230	490	800	960	1400
	4								48	80	150	310	450	630	860
	6									64	80	230	330	410	500
	10											100	128	200	380
	13												128	160	250
	16												128	160	200
	20													160	200
	25														200

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: iC60N/H/L curve C
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve C													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**														
Selectivity limit (A)															
iC60 N/H/L Curve B	**0.5**	8	60	T	T	T	T	T	T	T	T	T	T	T	T
	1		16	24	32	70	180	210	370	590	1100	2400	7000	T	T
	2			24	32	48	140	160	220	310	460	780	1200	2000	2000
	3				5	48	120	104	190	280	380	580	820	1400	1400
	4					14	80	104	130	240	300	430	590	1000	1100
	6						80	104	130	160	200	380	480	770	850
	10							104	130	160	200	260	320	400	500
	13									160	200	260	320	400	500
	16										200	260	320	400	500
	20											260	320	400	500
	25												320	400	500
	32													400	500
	40														500
Selectivity limit (A)															
iC60 N/H/L Curve C	**0.5**	8	50	T	T	T	T	T	T	T	T	T	T	T	T
	1		16	24	32	70	180	210	370	590	1100	2400	7900	T	T
	2			24	32	48	120	160	220	310	460	780	1200	2000	2000
	3					16	80	104	190	280	380	480	820	1400	1400
	4					14	80	104	130	160	300	430	590	1000	1100
	6						80	104	130	160	200	380	480	770	850
	10								130	160	200	260	320	400	500
	13									55	200	260	320	400	500
	16										71	260	320	400	500
	20											260	320	400	500
	25												127	400	500
	32													168	500
	40														500
Selectivity limit (A)															
iC60 N/H/L Curve D	**0.5**		50	T	T	T	T	T	T	T	T	T	T	T	T
	1			24	32	70	180	210	370	590	1100	2400	7900	T	T
	2				25	48	120	160	220	310	460	680	1200	2000	2000
	3					15	80	104	130	240	380	480	710	1400	1400
	4						28	100	130	160	300	430	590	1000	1100
	6								130	160	200	260	480	770	850
	10									73	200	260	320	400	500
	13										79	260	320	400	500
	16										71	194	320	400	500
	20												135	400	500
	25													174	500
	32														277
	40														

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve C
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve C													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**2P (220-240 V) single-phase network**														
Selectivity limit (A)															
iC60 N/H/L Curve B	**0.5**	20	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		20	40	50	120	540	940	2700	T	T	T	T	T	T
	2			24	32	70	210	260	430	800	1500	3600	7900	52000	53000
	3				5	48	140	180	250	450	710	1200	2100	11000	9800
	4					14	120	160	220	310	460	680	940	2000	2000
	6						80	104	130	240	350	510	770	1300	1100
	10							104	130	160	200	380	550	930	950
	13									160	200	260	480	680	760
	16										200	260	320	400	500
	20											260	320	400	500
	25												320	400	500
	32													400	500
	40														500
Selectivity limit (A)															
iC60 N/H/L Curve C	**0.5**	20	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		20	40	50	120	540	940	2700	T	T	T	T	T	T
	2			24	32	70	210	260	430	660	1500	3600	7900	60000	53000
	3					16	140	180	250	380	710	1200	2100	11000	9800
	4					14	120	104	190	310	460	680	940	2000	2000
	6						80	104	130	160	350	510	620	1300	1100
	10								130	160	200	260	480	770	850
	13									55	200	260	480	680	760
	16										78	260	320	400	500
	20											260	320	400	500
	25												127	400	500
	32													168	500
	40														500
Selectivity limit (A)															
iC60 N/H/L Curve D	**0.5**		T	T	T	T	T	T	T	T	T	T	T	T	T
	1			30	50	120	540	940	2700	T	T	T	T	T	T
	2				25	48	210	260	430	800	1500	3600	7900	60000	53000
	3					15	120	160	250	380	630	1200	2100	11000	9800
	4						28	100	190	280	460	680	940	2000	2000
	6								130	160	300	450	620	1100	1100
	10									73	200	260	480	770	850
	13										79	260	320	680	760
	16										71	194	320	400	500
	20												135	400	500
	25													174	500
	32														277
	40														

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: iC60N/H/L curve D
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve D													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**														
Selectivity limit (A)															
iC60 N/H/L Curve B	**0.5**	20	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		30	50	70	150	290	510	770	2000	3900	T	T	T	T
	2			36	48	110	210	300	450	730	890	1400	2300	5000	6800
	3				5	72	180	230	330	550	670	1100	1300	2800	4300
	4					72	120	160	290	410	560	840	1000	2000	2400
	6						120	160	190	360	450	660	910	1300	1600
	10							28	190	240	300	380	720	1100	1400
	13									240	300	380	480	900	1100
	16										300	380	480	900	1100
	20											380	480	600	760
	25												480	600	760
	32													600	760
	40														760
Selectivity limit (A)															
iC60 N/H/L Curve C	**0.5**	20	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		30	50	70	150	290	510	770	2000	3900	T	T	T	T
	2			36	48	110	210	300	450	730	890	1600	2300	5000	6800
	3				5	15	120	230	330	550	670	1100	1300	2800	4300
	4					13	120	160	290	410	560	710	1000	2000	2400
	6						120	160	190	360	450	660	910	1300	1600
	10							28	49	240	300	380	720	1100	1100
	13									52	300	380	480	900	1100
	16										71	380	480	600	760
	20											380	480	600	760
	25												105	600	760
	32													153	760
	40														760
Selectivity limit (A)															
iC60 N/H/L Curve D	**0.5**	20	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		30	50	70	150	290	510	770	2000	3900	T	T	T	T
	2			36	48	110	210	300	370	640	890	1600	2300	5000	6800
	3					15	120	230	330	450	670	970	1300	2800	3800
	4					13	28	160	190	410	560	710	1000	1600	2400
	6						32	160	190	240	450	580	810	1300	1600
	10								49	73	300	380	480	1100	1100
	13									52	80	380	480	900	1100
	16										71	380	480	600	760
	20											105	135	600	760
	25												105	174	760
	32													153	760
	40														245

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve D
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		iC60N/H/L Curve D													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**2P (220-240 V) single-phase network**														
Selectivity limit (A)															
iC60 N/H/L Curve B	**0.5**	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		50	100	130	340	1600	10000	T	T	T	T	T	T	T
	2			50	80	150	350	650	1100	2600	5800	16000	45000	T	T
	3				5	110	240	370	530	920	1600	3800	9500	T	T
	4					72	180	270	370	640	890	1400	2300	7100	12000
	6						120	160	290	480	590	900	1300	2200	2600
	10							28	190	360	450	660	910	1500	1900
	13									240	450	580	810	1300	1600
	16										300	380	720	1100	1400
	20											380	480	900	1100
	25												480	600	760
	32													600	760
	40														760
Selectivity limit (A)															
iC60 N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		50	100	130	340	1600	10000	T	T	T	T	T	T	T
	2			50	70	150	350	580	1100	2600	5800	16000	45000	T	T
	3				5	15	240	370	530	920	1600	3800	9500	T	T
	4					13	180	270	370	640	890	1400	1900	7100	12000
	6						120	160	290	480	590	900	1300	2200	2600
	10							28	190	360	450	660	910	1500	1900
	13									52	300	580	810	1300	1600
	16										71	380	720	1100	1400
	20											380	480	900	1100
	25												105	600	760
	32													153	760
	40														760
Selectivity limit (A)															
iC60 N/H/L Curve D	**0.5**	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1		40	80	130	340	1600	10000	T	T	T	T	T	T	T
	2			50	70	150	350	650	1200	2600	5800	16000	45000	T	T
	3					15	210	300	530	920	1600	3800	9500	T	T
	4					13	28	230	370	640	890	1400	1900	7100	12000
	6						32	160	190	420	590	900	1100	2200	2600
	10								49	73	450	660	910	1500	1900
	13									52	300	380	720	1300	1600
	16										71	380	480	1100	1400
	20											105	480	900	1100
	25												105	174	760
	32													153	760
	40														245

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: iC60N/H/L curve B
Downstream: iC60 RCBO curves B, C

220-240/380-415 V AC

Upstream		iC60N/H/L Curve B													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**3P/4P 380-415 V AC**														
Selectivity limit (A)															
iC60 RCBO Curve B	**6**						40	52	64	80	100	190	290	300	440
	10								64	80	100	130	240	200	380
	13									80	100	130	240	200	250
	16										100	130	160	200	250
	20											130	160	200	250
	25												160	200	250
	32													200	250
	40														250
Selectivity limit (A)															
iC60 RCBO Curve C	**6**								51	80	100	190	290	300	440
	10									64	80	130	240	200	250
	13											102	160	200	250
	16											102	128	200	250
	20												128	160	250
	25													160	200
	32														200

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve B
Downstream: iC60 RCBO curves B, C

220-240/380-415 V AC

Upstream		iC60N/H/L Curve B													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**2P (220-240 V AC), 2P (220-240 V AC Phase to Neutral) 3P (220-240 V AC Phase to Phase)**														
Selectivity limit (A)															
iC60 RCBO Curve B	**6**						40	52	64	80	100	270	380	460	630
	10								64	80	100	190	290	300	440
	13									80	100	130	240	200	380
	16										100	130	240	200	250
	20											130	160	200	250
	25												160	200	250
	32													200	250
	40														250
Selectivity limit (A)															
iC60 RCBO Curve C	**6**								51	80	100	230	380	410	630
	10									64	80	130	240	300	440
	13											102	240	200	380
	16											102	128	200	250
	20												128	160	250
	25													160	200
	32														200

4000 Selectivity limit = 4 kA.

No selectivity.

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: iC60N/H/L curve C
Downstream: iC60 RCBO curves B, C

220-240/380-415 V AC

Upstream		iC60N/H/L Curve C													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**3P/4P 380-415 V AC**														
Selectivity limit (A)															
iC60 RCBO Curve B	**6**						80	104	130	160	200	380	480	770	850
	10							104	130	160	200	260	320	680	500
	13									160	200	260	320	600	500
	16										200	260	320	600	500
	20											260	320	400	500
	25												320	400	500
	32													400	500
	40														500
Selectivity limit (A)															
iC60 RCBO Curve C	**6**						80	104	130	160	200	380	480	770	850
	10								130	160	200	260	320	680	500
	13									55	200	260	320	600	500
	16										71	260	320	400	500
	20											260	320	400	500
	25												127	400	500
	32													168	500
	40														500

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve C
Downstream: iC60 RCBO curves B, C

220-240/380-415 V AC

Upstream		iC60N/H/L Curve C													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**2P (220-240 V AC Phase to Neutral) 3P (220-240 V AC Phase to Phase)**														
Selectivity limit (A)															
iC60 RCBO Curve B	**6**						80	104	130	240	350	510	770	1300	1100
	10							104	130	160	200	380	550	930	950
	13									160	200	260	480	770	760
	16										200	260	320	400	500
	20											260	320	400	500
	25												320	400	500
	32													400	500
	40														500
Selectivity limit (A)															
iC60 RCBO Curve C	**6**						80	104	130	160	350	510	620	1300	1100
	10								130	160	200	260	480	770	850
	13									55	200	260	480	770	760
	16										78	260	320	400	500
	20											260	320	400	500
	25												127	400	500
	32													168	500
	40														500

4000 Selectivity limit = 4 kA.

No selectivity.

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: iC60N/H/L curve D
Downstream: iC60 RCBO curves B, C

220-240/380-415 V AC

Upstream		iC60N/H/L Curve D													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**3P/4P 380-415 V AC**														
Selectivity limit (A)															
iC60 RCBO Curve B	**6**						120	160	190	360	450	660	910	1300	1600
	10							28	190	240	300	380	720	1100	1400
	13									240	300	380	480	900	1100
	16										300	380	480	900	1100
	20											380	480	600	760
	25												480	600	760
	32													600	760
	40														760
Selectivity limit (A)															
iC60 RCBO Curve C	**6**						120	160	190	360	450	660	910	1300	1600
	10							28	49	240	300	380	720	1100	1100
	13									52	300	380	480	900	1100
	16										71	380	480	900	760
	20											380	480	600	760
	25												105	600	760
	32													153	760
	40														760

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: iC60N/H/L curve D
Downstream: iC60 RCBO curves B, C

220-240/380-415 V AC

Upstream		iC60N/H/L Curve D													
In (A)		1	2	3	4	6	10	13	16	20	25	32	40	50	63
Downstream	**2P (220-240 V AC Phase to Neutral) 3P (220-240 V AC Phase to Phase)**														
Selectivity limit (A)															
iC60 RCBO Curve B	**6**						120	160	290	480	590	900	1300	2200	2600
	10							28	190	360	450	660	910	1500	1900
	13									240	450	580	810	1300	1600
	16										300	380	720	1100	1400
	20											380	480	900	1100
	25												480	900	760
	32													600	760
	40														760
Selectivity limit (A)															
iC60 RCBO Curve C	**6**						120	160	290	480	590	900	1300	2200	2600
	10							28	190	360	450	660	910	1500	1900
	13									52	300	580	810	1300	1600
	16										71	380	720	1100	1400
	20											380	480	900	1100
	25												105	600	760
	32													153	760
	40														760

4000 Selectivity limit = 4 kA.

No selectivity.

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve B
Downstream: iDPN/ iDPN N curves B, C, D, iDPN N Vigi / iDPN H Vigi curves B, C

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iDPN **iDPN N** **iDPN N Vigi** **iDPN H Vigi** Curve B	**1**	300	500	700	1000	1500	2000	2500	T	T	T	T
	2	150	300	500	700	1000	1500	2000	T	T	T	T
	3	40	64	300	500	700	1000	1500	T	T	T	T
	4	40	64	80	400	500	700	800	3000	T	T	T
	6	40	64	80	400	500	700	800	3000	T	T	T
	10		64	80	100	130	500	600	1800	3000	T	T
	16				100	130	160	200	1000	2000	3300	3750
	20					52	160	200	1000	1600	2500	3700
	25						59	200	800	1300	2100	3700
	32							200	600	1000	1800	2700
	40								112	320	1600	2400
Selectivity limit (A)												
iDPN **iDPN N** **iDPN N Vigi** **iDPN H Vigi** Curve C	**1**	300	500	700	1000	1500	2000	2500	T	T	T	T
	2	150	300	500	700	1000	1500	2000	T	T	T	T
	3	40	64	300	500	700	1000	1500	T	T	T	T
	4	40	64	80	400	500	700	800	3000	T	T	T
	6		51	80	100	500	700	800	3000	T	T	T
	10				80	130	500	600	1800	3000	4000	T
	16					98	128	200	1000	2000	3300	3700
	20						128	160	1000	1600	2500	3700
	25							160	201	1300	2100	3700
	32								201	256	1800	2700
	40									255	320	2400
Selectivity limit (A)												
iDPN **iDPN N** Curve D	**1**	300	500	700	1000	1500	2000	2500	T	T	T	T
	2	150	300	500	700	1000	1500	2000	T	T	T	T
	3		64	300	500	700	1000	1500	T	T	T	T
	4			80	400	500	700	800	3000	T	T	T
	6					500	700	800	3000	T	T	T
	10							600	1800	3000	4000	T
	16								201	2000	3300	3700
	20								201	256	2500	3700
	25								201	256	320	3700
	32									256	320	400
	40										320	400

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: NG125N/H/L, C120N/H curve C
Downstream: iDPN curves B, C, D, iDPN N Vigi / iDPN H Vigi curves B, C

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iDPN **iDPN N** **iDPN N Vigi** **iDPN H Vigi** Curve B	**1**	300	500	700	1000	T	T	T	T	T	T	T
	2	150	300	500	700	1000	1500	T	T	T	T	T
	3	120	200	300	500	700	1000	1500	T	T	T	T
	4	80	130	170	400	500	700	800	3000	T	T	T
	6	80	130	170	400	500	700	800	3000	T	T	T
	10		130	160	200	350	500	600	1800	3000	T	T
	16				200	270	340	450	1250	2000	3300	3700
	20					52	320	400	1000	1600	2500	3700
	25						59	400	800	1300	2100	3700
	32							95	600	1000	1800	2700
	40								112	700	1600	2400
Selectivity limit (A)												
iDPN **iDPN N** **iDPN N Vigi** **iDPN H Vigi** Curve C	**1**	300	500	700	1000	T	T	T	T	T	T	T
	2	150	300	500	700	1000	1500	T	T	T	T	T
	3	120	200	300	500	700	1000	1500	T	T	T	T
	4	21	200	170	400	500	700	800	3000	4500	4500	T
	6	18	200	170	400	500	700	800	3000	4500	4500	T
	10		25	160	200	350	500	600	1800	3000	4500	4500
	16				200	270	340	450	1250	2000	3300	3700
	20					52	320	400	1000	1600	2500	3700
	25						59	400	800	1300	2100	3700
	32							95	800	1000	1800	2700
	40								112	257	1600	2400
Selectivity limit (A)												
iDPN **iDPN N** Curve D	**1**	300	500	700	1000	T	T	T	T	T	T	T
	2	150	300	500	700	1000	1500	T	T	T	T	T
	3	120	200	300	500	700	1000	1500	T	T	T	T
	4	21	200	170	400	500	700	800	3000	4500	4500	T
	6				400	500	700	800	3000	4500	4500	T
	10				200	450	500	600	1800	3000	4500	4500
	16							450	1000	2000	3300	3700
	20								1000	1600	2500	3700
	25								800	1300	2100	3700
	32										1800	2700
	40											2400

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: NG125N/H/L, C120N/H curve D
Downstream: iDPN/ iDPN N curves B, C, D, iDPN N Vigi / iDPN H Vigi curves B, C

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iDPN **iDPN N** **iDPN N Vigi** **iDPN H Vigi** Curve B	**1**	350	T	T	T	T	T	T	T	T	T	T
	2	240	770	830	2000	2200	4800	T	T	T	T	T
	3	180	610	640	1600	1700	3800	T	T	T	T	T
	4	120	450	500	1000	1100	1900	4600	T	T	T	T
	6	120	340	360	730	740	1200	2600	4700	T	T	T
	10		192	240	550	580	860	1600	2800	3500	5600	T
	16				300	380	480	1200	1900	2400	3600	4200
	20					380	480	1000	1500	2000	2900	3300
	25						59	950	1400	1700	2600	2900
	32							600	1100	1600	2200	2600
	40								756	1400	2100	2400
Selectivity limit (A)												
iDPN **iDPN N** **iDPN N Vigi** **iDPN H Vigi** Curve C	**1**	350	T	T	T	T	T	T	T	T	T	T
	2	240	770	830	2000	2200	4800	T	T	T	T	T
	3	180	610	640	1600	1700	3800	T	T	T	T	T
	4	120	450	500	1000	1100	1900	4600	T	T	T	T
	6	18	192	360	730	740	1200	2600	4700	T	T	T
	10		29	240	550	580	860	1600	2800	3500	5600	T
	16				49	380	480	1200	1900	2400	3600	4200
	20					52	480	1000	1500	2000	2900	3300
	25						59	600	1400	1700	2600	2900
	32							95	1100	1600	2200	2600
	40								756	960	2100	2400
Selectivity limit (A)												
iDPN **iDPN N** Curve D	**1**	350	T	T	T	T	T	T	T	T	T	T
	2	240	770	830	2000	2200	4800	T	T	T	T	T
	3	120	610	640	1600	1700	3800	T	T	T	T	T
	4	21	450	500	1000	1100	1900	4600	T	T	T	T
	6	18	192	360	730	740	1200	2600	4700	T	T	T
	10		25	240	300	580	860	1600	2800	3500	5600	T
	16				49	380	480	1200	1900	2400	3600	4200
	20					52	480	1000	1500	2000	2900	3300
	25						59	600	756	1700	2600	2900
	32							95	756	1600	2200	2600
	40								756	960	2100	2400

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: NG125N/H/L, C120N/H curve B
Downstream: iC40, iC40 N curves B, C, D & iCV40N curves B, C

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iC40 iC40 N iCV40 N iCV40 H Curve B	**2**	150	300	500	700	1000	1500	2000	T	T	T	T
	4	40	64	80	400	500	700	800	3000	T	T	T
	6	40	64	80	400	500	700	800	3000	T	T	T
	10		64	80	100	130	500	600	1800	3000	T	T
	13				100	130	160	200	1000	2000	3300	3750
	16				100	130	160	200	1000	2000	3300	3750
	20					52	160	200	1000	1600	2500	3700
	25						59	200	800	1300	2100	3700
	32							200	600	1000	1800	2700
	40								112	320	1600	2400
Selectivity limit (A)												
iC40 iC40 N iCV40 N iCV40 H Curve C	**2**	150	300	500	700	1000	1500	2000	T	T	T	T
	4	40	64	80	400	500	700	800	3000	T	T	T
	6		51	80	100	500	700	800	3000	T	T	T
	10				80	130	500	600	1800	3000	4000	T
	13					98	128	200	1000	2000	3300	3700
	16					98	128	200	1000	2000	3300	3700
	20						128	160	1000	1600	2500	3700
	25							160	201	1300	2100	3700
	32								201	256	1800	2700
	40									255	320	2400
Selectivity limit (A)												
iC40 iC40 N iCV40 H Curve D	**2**	150	300	500	700	1000	1500	2000	T	T	T	T
	4			80	400	500	700	800	3000	T	T	T
	6					500	700	800	3000	T	T	T
	10							600	1800	3000	4000	T
	13								201	2000	3300	3700
	16								201	2000	3300	3700
	20								201	256	2500	3700
	25								201	256	320	3700
	32									256	320	400
	40										320	400

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: NG125N/H/L, C120N/H curve C
Downstream: iC40, iC40 N curves B, C, D & iCV40N curves B, C

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iC40 iC40 N iCV40 N iCV40 H Curve B	**2**	150	300	500	700	1000	1500	T	T	T	T	T
	4	80	130	170	400	500	700	800	3000	T	T	T
	6	80	130	170	400	500	700	800	3000	T	T	T
	10		130	160	200	350	500	600	1800	3000	T	T
	13				200	270	340	450	1250	2000	3300	3700
	16				200	270	340	450	1250	2000	3300	3700
	20					52	320	400	1000	1600	2500	3700
	25						59	400	800	1300	2100	3700
	32							95	600	1000	1800	2700
	40								112	700	1600	2400
Selectivity limit (A)												
iC40 iC40 N iCV40 N iCV40 H Curve C	**2**	150	300	500	700	1000	1500	T	T	T	T	T
	4	21	200	170	400	500	700	800	3000	4500	4500	T
	6	18	200	170	400	500	700	800	3000	4500	4500	T
	10		25	160	200	350	500	600	1800	3000	4500	4500
	13				200	270	340	450	1250	2000	3300	3700
	16				200	270	340	450	1250	2000	3300	3700
	20					52	320	400	1000	1600	2500	3700
	25						59	400	800	1300	2100	3700
	32							95	800	1000	1800	2700
	40								112	257	1600	2400
Selectivity limit (A)												
iC40 iC40 N Curve D	**2**	150	300	500	700	1000	1500	T	T	T	T	T
	4	21	200	170	400	500	700	800	3000	4500	4500	T
	6				400	500	700	800	3000	4500	4500	T
	10				200	450	500	600	1800	3000	4500	4500
	13							450	1000	2000	3300	3700
	16							450	1000	2000	3300	3700
	20								1000	1600	2500	3700
	25								800	1300	2100	3700
	32										1800	2700
	40											2400

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: NG125N/H/L, C120N/H curve D
Downstream: iC40, iC40 N curves B, C, D & iCV40N curves B, C

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P+N 3P, 3P+N**											
Selectivity limit (A)												
iC40 iC40 N iCV40 N iCV40 H Curve B	**2**	240	770	830	2000	2200	4800	T	T	T	T	T
	4	120	450	500	1000	1100	1900	4600	T	T	T	T
	6	120	340	360	730	740	1200	2600	4700	T	T	T
	10		192	240	550	580	860	1600	2800	3500	5600	T
	13				300	380	480	1200	1900	2400	3600	4200
	16				300	380	480	1200	1900	2400	3600	4200
	20					380	480	1000	1500	2000	2900	3300
	25						59	950	1400	1700	2600	2900
	32							600	1100	1600	2200	2600
	40								756	1400	2100	2400
Selectivity limit (A)												
iC40 iC40 N iCV40 N iCV40 H Curve C	**2**	240	770	830	2000	2200	4800	T	T	T	T	T
	4	120	450	500	1000	1100	1900	4600	T	T	T	T
	6	18	192	360	730	740	1200	2600	4700	T	T	T
	10		29	240	550	580	860	1600	2800	3500	5600	T
	13				49	380	480	1200	1900	2400	3600	4200
	16				49	380	480	1200	1900	2400	3600	4200
	20					52	480	1000	1500	2000	2900	3300
	25						59	600	1400	1700	2600	2900
	32							95	1100	1600	2200	2600
	40								756	960	2100	2400
Selectivity limit (A)												
iC40 iC40 N Curve D	**2**	240	770	830	2000	2200	4800	T	T	T	T	T
	4	21	450	500	1000	1100	1900	4600	T	T	T	T
	6	18	192	360	730	740	1200	2600	4700	T	T	T
	10		25	240	300	580	860	1600	2800	3500	5600	T
	13				49	380	480	1200	1900	2400	3600	4200
	16				49	380	480	1200	1900	2400	3600	4200
	20					52	480	1000	1500	2000	2900	3300
	25						59	600	756	1700	2600	2900
	32							95	756	1600	2200	2600
	40								756	960	2100	2400

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: NG125N/H/L, C120N/H curve B
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**											
Selectivity limit (A)												
iC60 N/H/L Curve B	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	70	150	210	350	550	2000	2500	T	T	T	T
	2	60	110	140	230	310	590	630	1200	2100	3900	9700
	3	40	90	120	180	220	380	460	770	1400	2000	5300
	4	40	64	80	150	190	310	380	570	940	1400	2400
	6	15	64	80	100	130	290	300	440	620	930	1700
	10		22	80	100	130	200	200	380	550	770	1300
	13			28	100	130	160	200	380	480	680	1100
	16				35	130	160	200	250	320	600	940
	20					46	160	200	250	320	400	850
	25						56	200	250	320	400	750
	32							80	250	320	400	500
	40								250	320	400	500
	50									320	400	500
	63											500
Selectivity limit (A)												
iC60 N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	70	150	210	350	550	2000	2500	T	T	T	T
	2	40	110	140	230	250	590	630	1200	2100	3900	9700
	3	30	64	120	180	220	380	460	770	1400	2000	5300
	4		64	80	150	190	310	340	570	940	1400	2400
	6			80	100	130	290	300	440	620	930	1700
	10					130	160	200	380	550	770	1100
	13						160	200	250	480	680	940
	16							200	250	320	600	940
	20									320	400	850
	25									320	400	750
	32											500
	40											500
Selectivity limit (A)												
iC60 N/H/L Curve D	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	60	150	210	350	550	2000	2500	T	T	T	T
	2	40	90	140	200	250	520	630	1200	2100	3900	9700
	3		64	80	180	220	380	380	770	1200	2000	5300
	4			80	150	190	310	340	570	820	1100	2400
	6					130	240	200	440	620	930	1700
	10							200	380	480	770	1100
	13								250	480	680	940
	16									320	600	940
	20										400	750
	25											500

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: NG125N/H/L, C120N/H curve B
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**2P (220-240 V) single-phase network**											
Selectivity limit (A)												
iC60 N/H/L Curve B	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	120	490	T	T	T	T	T	T	T	T	T
	2	60	160	350	500	1200	4200	8100	T	T	T	T
	3	40	110	170	250	520	1300	1900	6700	T	T	T
	4	40	64	80	190	280	630	750	1400	2700	6200	T
	6	15	64	80	150	150	350	430	810	1400	2100	6100
	10		22	80	100	130	160	200	500	840	1300	2500
	13			28	100	130	240	200	440	770	1100	1900
	16				35	130	160	200	380	520	770	1400
	20					46	160	200	250	320	600	1000
	25						56	200	250	320	400	890
	32							80	250	320	400	840
	40								250	320	400	790
	50									320	400	750
	63											500
Selectivity limit (A)												
iC60 N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	120	490	T	T	T	T	T	T	T	T	T
	2	60	160	350	500	1200	4200	8100	T	T	T	T
	3	30	110	170	250	520	1300	1900	6700	T	T	T
	4		64	80	190	280	630	750	1400	2700	6200	T
	6			80	150	150	350	430	810	1400	2100	6100
	10					130	160	200	500	840	1300	2500
	13						160	200	440	620	1100	1900
	16							200	380	520	770	1400
	20									320	600	1000
	25									320	400	890
	32											840
	40											500
Selectivity limit (A)												
iC60 N/H/L Curve D	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	120	490	T	T	T	T	T	T	T	T	T
	2	60	160	350	500	1200	4200	8100	T	T	T	T
	3		110	170	250	520	1300	1900	6700	T	T	T
	4			80	190	280	630	750	1400	2700	6200	T
	6					150	350	430	810	1400	2100	6100
	10							200	500	840	1300	2500
	13								380	620	930	1900
	16									520	770	1400
	20										600	1000
	25											890

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve C
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**											
Selectivity limit (A)												
iC60 N/H/L Curve B	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	140	490	920	2300	T	T	T	T	T	T	T
	2	80	250	380	550	1800	2400	8800	10000	13000	T	T
	3	80	190	280	380	1200	1400	4600	8000	8500	14000	T
	4	80	130	240	300	800	820	2000	2300	3400	7000	13000
	6	15	130	160	200	610	650	1400	2300	2300	3600	6400
	10		22	160	200	500	510	1100	1300	1600	2200	3600
	13			28	200	460	470	930	1100	1400	2000	2600
	16				35	380	430	770	950	1200	1700	2300
	20					46	320	680	850	960	1500	2100
	25						56	600	760	960	1200	1800
	32							80	500	640	1200	1500
	40								130	640	800	1500
	50									640	800	1500
	63										800	1000
Selectivity limit (A)												
iC60 N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	140	490	920	2300	T	T	T	T	T	T	T
	2	80	250	380	550	2100	2400	8800	10000	13000	T	T
	3	80	190	280	380	1200	1400	4600	8000	8500	14000	T
	4	18	130	160	300	800	820	2000	2300	3400	6000	13000
	6	15	130	160	200	610	650	1400	2300	2300	3600	5500
	10		22	160	200	500	510	930	1300	1400	2200	3100
	13			28	51	420	430	770	1100	1200	2000	2600
	16				35	256	400	770	950	1200	1700	2300
	20					46	320	680	850	960	1500	1800
	25						56	400	760	960	1200	1800
	32							80	500	640	1200	1500
	40								500	640	800	1500
	50									640	800	1000
	63											1000
Selectivity limit (A)												
iC60 N/H/L Curve D	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	140	490	920	2300	T	T	T	T	T	T	T
	2	80	250	380	550	1800	2400	8800	10000	13000	T	T
	3	21	190	280	380	1200	1200	4600	8000	8500	14000	T
	4	18	130	160	300	740	740	2000	2300	3400	6000	13000
	6		130	160	200	570	600	1400	1900	2300	3600	5500
	10				200	450	480	930	1300	1400	2200	3100
	13					256	430	770	950	1200	1700	2600
	16						320	770	950	960	1500	2300
	20							400	760	960	1200	1800
	25									640	1200	1500
	32									640	800	1500
	40											1000

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: NG125N/H/L, C120N/H curve C
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**2P (220-240 V) single-phase network**											
Selectivity limit (A)												
iC60 N/H/L Curve B	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	950	T	T	T	T	T	T	T	T	T	T
	2	210	1900	4200	10000	T	T	T	T	T	T	T
	3	120	780	1300	4700	T	T	T	T	T	T	T
	4	80	310	590	1100	4000	13000	T	T	T	T	T
	6	15	190	330	510	1500	2700	7200	9000	9000	T	T
	10		22	160	300	1000	1400	2700	3500	3500	7400	T
	13			28	200	760	910	2000	2700	2700	4900	8100
	16				35	620	620	1600	2700	2700	3600	5500
	20					46	480	1100	1600	1600	2200	3600
	25						56	930	1200	1200	2000	2600
	32							80	930	960	1700	2300
	40								130	960	1400	2000
	50									640	1200	1900
	63										1200	1700
Selectivity limit (A)												
iC60 N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	950	T	T	T	T	T	T	T	T	T	T
	2	210	1900	3500	10000	T	T	T	T	T	T	T
	3	80	670	1300	4700	T	T	T	T	T	T	T
	4	18	310	590	1100	3600	13000	T	T	T	T	T
	6	15	190	290	510	1500	2700	7200	9000	9000	T	T
	10		22	160	200	890	1200	2700	3700	3700	6600	T
	13			28	51	760	770	2000	2700	2700	4000	7200
	16				35	256	620	1600	2700	2700	3600	4600
	20					46	320	1100	1400	1400	2200	3600
	25						56	400	1100	1200	2000	2600
	32							80	500	960	1400	2300
	40								500	640	1200	2000
	50									640	800	1700
	63											1000
Selectivity limit (A)												
iC60 N/H/L Curve D	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	950	T	T	T	T	T	T	T	T	T	T
	2	210	1700	3500	10000	T	T	T	T	T	T	T
	3	21	550	1300	4700	T	T	T	T	T	T	T
	4	18	310	520	960	3600	13000	T	T	T	T	T
	6		190	240	460	1500	2700	6400	9000	9000	T	T
	10				200	890	1100	2700	3700	3700	6600	T
	13					256	620	2000	2300	2300	4000	7200
	16						320	1400	2300	2300	3100	4600
	20							400	1400	1400	2200	3100
	25									960	1700	2600
	32									640	1400	2000
	40											1800

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve D
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**											
Selectivity limit (A)												
iC60 N/H/L Curve B	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	410	3800	5200	T	T	T	T	T	T	T	T
	2	240	770	920	2600	2700	7400	14000	T	T	T	T
	3	180	610	640	1300	1600	3600	11000	T	T	T	T
	4	120	450	450	890	1100	1900	4100	11000	13000	T	T
	6	15	340	360	730	740	1300	2600	4700	6200	T	T
	10		22	240	590	660	910	1700	2600	3500	T	T
	13			28	300	580	810	1500	2100	2500	4600	T
	16				35	380	720	1300	1900	2400	3600	T
	20					46	480	1100	1600	2000	3000	3600
	25						56	900	1400	1700	2400	2900
	32							83	1100	1700	2400	2600
	40								1100	1400	2100	2300
	50									1400	2000	2300
	63										2000	2300
Selectivity limit (A)												
iC60 N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	410	3800	5200	T	T	T	T	T	T	T	T
	2	240	770	920	2600	2700	7400	T	T	T	T	T
	3	21	530	640	1300	1600	3600	11000	T	T	T	T
	4	18	450	450	890	1100	1900	4100	11000	13000	T	T
	6	15	340	360	730	740	1300	2200	4700	6200	T	T
	10		22	240	590	580	910	1700	2600	3500	T	T
	13			28	51	580	720	1300	2100	2500	4100	T
	16				35	380	480	1100	1900	2400	3600	T
	20					46	88	1100	1600	2000	2700	2900
	25						56	600	1400	1700	2400	2900
	32							80	1100	1400	2400	2600
	40								756	1400	2100	2300
	50									960	2000	2300
	63										1800	2300
Selectivity limit (A)												
iC60 N/H/L Curve D	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	410	3800	5200	T	T	T	T	T	T	T	T
	2	240	770	920	2600	2700	6300	T	T	T	T	T
	3	21	530	550	1300	1600	3600	11000	T	T	T	T
	4	18	370	450	890	970	1600	3700	11000	13000	T	T
	6	15	340	360	730	740	1100	2200	4700	5400	T	T
	10		22	240	520	580	810	1500	2600	3000	T	T
	13			28	51	380	720	1300	2100	2500	4100	T
	16				35	380	480	1100	1900	2400	3600	T
	20					46	480	900	1400	1700	2700	2900
	25						56	600	1400	1700	2400	2600
	32							80	1100	1400	2100	2600
	40								756	1400	2100	2300
	50									960	1800	1800
	63										1800	1800

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: NG125N/H/L, C120N/H curve D
Downstream: iC60N/H/L curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**2P (220-240 V) single-phase network**											
Selectivity limit (A)												
iC60 N/H/L Curve B	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	T	T	T	T	T	T	T	T	T	T	T
	2	1200	T	T	T	T	T	T	T	T	T	T
	3	520	3400	3400	T	T	T	T	T	T	T	T
	4	120	1200	1300	5800	5600	T	T	T	T	T	T
	6	15	700	720	1900	1900	6000	11000	T	T	T	T
	10		22	540	1200	1200	2600	4200	10000	T	T	T
	13			28	300	900	1800	3400	7300	8000	T	T
	16				35	740	1500	2200	4700	5400	T	T
	20					46	910	1700	3500	3500	6900	T
	25						56	1500	2500	2500	5200	6800
	32							83	2000	2400	3400	4400
	40								1800	1900	2900	4000
	50									1900	2800	3300
	63										2300	2800
Selectivity limit (A)												
iC60 N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	T	T	T	T	T	T	T	T	T	T	T
	2	1200	T	T	T	T	T	T	T	T	T	T
	3	21	3400	3400	T	T	T	T	T	T	T	T
	4	18	1200	1300	5800	5600	T	T	T	T	T	T
	6	15	700	720	1900	1900	6000	11000	T	T	T	T
	10		22	480	1200	1200	2200	4200	10000	T	T	T
	13			28	51	900	1800	3000	7300	8000	T	T
	16				35	740	1300	2200	4700	5400	T	T
	20					46	88	1700	3500	3500	6900	T
	25						56	600	2500	2500	4600	6800
	32							80	2000	2200	3400	4400
	40								756	1900	2900	3500
	50									960	2300	2800
	63										2300	2800
Selectivity limit (A)												
iC60 N/H/L Curve D	**0.5**	T	T	T	T	T	T	T	T	T	T	T
	1	T	T	T	T	T	T	T	T	T	T	T
	2	1200	T	T	T	T	T	T	T	T	T	T
	3	21	3000	3400	T	T	T	T	T	T	T	T
	4	18	1100	1300	5800	4500	T	T	T	T	T	T
	6	15	600	600	1600	1600	5300	11000	T	T	T	T
	10		22	420	1000	1100	2200	3400	10000	T	T	T
	13			28	51	900	1700	2600	6400	7100	T	T
	16				35	380	1300	2200	3900	4500	T	T
	20					46	480	1500	3000	3500	6000	T
	25						56	600	2100	2500	4100	5900
	32							80	1800	2200	3400	4400
	40								756	1700	2400	2900
	50									960	2300	2800
	63										2000	2300

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve B
Downstream: iC60 RCBO curves B, C

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**3P/4P 380-415 V AC**											
Selectivity limit (A)												
iC60 RCBO Curve B	**6**	15	64	80	100	130	290	300	440	620	930	1700
	10		22	80	100	130	200	200	380	550	770	1300
	13			28	100	130	160	200	380	480	680	1100
	16				35	130	160	200	250	320	600	940
	20					46	160	200	250	320	400	850
	25						56	200	250	320	400	750
	32							80	250	320	400	500
Selectivity limit (A)												
iC60 RCBO Curve C	**6**			80	100	130	290	300	440	620	930	1700
	10					130	160	200	380	550	770	1100
	13						160	200	250	480	680	940
	16							200	250	320	600	940
	20									320	400	850
	25									320	400	750
	32											500

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: NG125N/H/L, C120N/H curve B
Downstream: iC60 RCBO curves B, C

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**2P (220-240 V AC Phase to Neutral) 3P (220-240 V AC Phase to Phase)**											
Selectivity limit (A)												
iC60 RCBO Curve B	**6**	15	64	80	150	150	350	430	810	1400	2100	6100
	10		22	80	100	130	160	200	500	840	1300	2500
	13			28	100	130	240	200	440	770	1100	1900
	16				35	130	160	200	380	520	770	1400
	20					46	160	200	250	320	600	1000
	25						56	200	250	320	400	890
	32							80	250	320	400	840
Selectivity limit (A)												
iC60 RCBO Curve C	**6**			80	150	150	350	430	810	1400	2100	6100
	10					130	160	200	500	840	1300	2500
	13						160	200	440	620	1100	1900
	16							200	380	520	770	1400
	20									320	600	1000
	25									320	400	890
	32											840

4000 Selectivity limit = 4 kA.

No selectivity.

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve C
Downstream: iC60 RCBO curves B, C

220-240/380-415 V AC

Upstream		NG125N/H/L Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**3P/4P 380-415 V AC**											
Selectivity limit (A)												
iC60 RCBO Curve B	**6**	15	130	160	200	610	650	1400	2300	2300	3600	6400
	10		22	160	200	500	510	1100	1300	1600	2200	3600
	13			28	200	460	470	930	1100	1400	2000	2600
	16				35	380	430	770	950	1200	1700	2300
	20					46	320	680	850	960	1500	2100
	25						56	600	760	960	1200	1800
	32							80	500	640	1200	1500
Selectivity limit (A)												
iC60 RCBO Curve C	**6**	15	130	160	200	610	650	1400	2300	2300	3600	5500
	10		22	160	200	500	510	930	1300	1400	2200	3100
	13			28	51	420	430	770	1100	1200	2000	2600
	16				35	256	400	770	950	1200	1700	2300
	20					46	320	680	850	960	1500	1800
	25						56	400	760	960	1200	1800
	32							80	500	640	1200	1500

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: NG125N/H/L, C120N/H curve C
Downstream: iC60 RCBO curves B, C

220-240/380-415 V AC

Upstream		NG125N/H/L Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**2P (220-240 V AC Phase to Neutral) 3P (220-240 V AC Phase to Phase)**											
Selectivity limit (A)												
iC60 RCBO Curve B	**6**	15	190	330	510	1500	2700	7200	9000	9000	T	T
	10		22	160	300	1000	1400	2700	3500	3500	7400	T
	13			28	200	760	910	2000	2700	2700	4900	8100
	16				35	620	620	1600	2700	2700	3600	5500
	20					46	480	1100	1600	1600	2200	3600
	25						56	930	1200	1200	2000	2600
	32							80	930	960	1700	2300
Selectivity limit (A)												
iC60 RCBO Curve C	**6**	15	190	290	510	1500	2700	7200	9000	9000	T	T
	10		22	160	200	890	1200	2700	3700	3700	6600	T
	13			28	51	760	770	2000	2700	2700	4000	7200
	16				35	256	620	1600	2700	2700	3600	4600
	20					46	320	1100	1400	1400	2200	3600
	25						56	400	1100	1200	2000	2600
	32							80	500	960	1400	2300

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve D
Downstream: iC60 RCBO curves B, C

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**3P/4P 380-415 V AC**											
Selectivity limit (A)												
iC60 RCBO Curve B	**6**	15	340	360	730	740	1300	2600	4700	6200	T	T
	10		22	240	590	660	910	1700	2600	3500	T	T
	13			28	300	580	810	1500	2100	2500	4600	T
	16				35	380	720	1300	1900	2400	3600	T
	20					46	480	1100	1600	2000	3000	3600
	25						56	900	1400	1700	2400	2900
	32							83	1100	1700	2400	2600
Selectivity limit (A)												
iC60 RCBO Curve C	**6**	15	340	360	730	740	1300	2200	4700	6200	T	T
	10		22	240	590	580	910	1700	2600	3500	T	T
	13			28	51	580	720	1300	2100	2500	4100	T
	16				35	380	480	1100	1900	2400	3600	T
	20					46	88	1100	1600	2000	2700	2900
	25						56	600	1400	1700	2400	2900
	32							80	1100	1400	2400	2600

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: NG125N/H/L, C120N/H curve D
Downstream: iC60 RCBO curves B, C

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**2P (220-240 V AC Phase to Neutral) 3P (220-240 V AC Phase to Phase)**											
Selectivity limit (A)												
iC60 RCBO Curve B	**6**	15	700	720	1900	1900	6000	11000	T	T	T	T
	10		22	540	1200	1200	2600	4200	10000	T	T	T
	13			28	300	900	1800	3400	7300	8000	T	T
	16				35	740	1500	2200	4700	5400	T	T
	20					46	910	1700	3500	3500	6900	T
	25						56	1500	2500	2500	5200	6800
	32							83	2000	2400	3400	4400
Selectivity limit (A)												
iC60 RCBO Curve C	**6**	15	700	720	1900	1900	6000	11000	T	T	T	T
	10		22	480	1200	1200	2200	4200	10000	T	T	T
	13			28	51	900	1800	3000	7300	8000	T	T
	16				35	740	1300	2200	4700	5400	T	T
	20					46	88	1700	3500	3500	6900	T
	25						56	600	2500	2500	4600	6800
	32							80	2000	2200	3400	4400

4000 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve B
Downstream: C120, NG125 curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**											
Selectivity limit (A)												
C120 N/H NG125 N/H/L Curve B	**10**			80	100	130	160	200	250	320	400	800
	16				100	130	160	200	250	320	400	750
	20					65	160	200	250	320	400	750
	25						160	200	250	320	400	500
	32							200	250	320	400	500
	40								250	320	400	500
	50									320	400	500
	63										400	500
	80											400
Selectivity limit (A)												
C120 N/H NG125 N/H/L Curve C	**10**					130	160	200	250	320	400	750
	16							200	250	320	400	500
	20								250	320	400	500
	25									320	400	500
	32										400	500
	40											500
Selectivity limit (A)												
C120 N/H NG125 N/H/L Curve D	**10**							200	250	320	400	750
	16									320	400	500
	20										400	500
	25											500

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream : NG125N/H/L, C120N/H curve B
Downstream: C120, NG125 curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**2P (220-240 V) single-phase network**											
Selectivity limit (A)												
C120 N/H	**10**			80	100	130	260	200	400	540	670	1100
NG125 N/H/L	**16**				100	130	240	200	250	480	630	910
Curve B	**20**					65	160	200	250	320	600	830
	25						160	200	250	320	400	830
	32							200	250	320	400	750
	40								250	320	400	750
	50									320	400	500
	63										400	500
	80											400
Selectivity limit (A)												
C120 N/H	**10**					130	240	200	250	480	670	980
NG125 N/H/L	**16**							200	250	320	400	830
Curve C	**20**								250	320	400	830
	25									320	400	750
	32										400	500
	40											500
Selectivity limit (A)												
C120 N/H	**10**							200	250	320	630	980
NG125 N/H/L	**16**									320	400	750
Curve D	**20**										400	750
	25											500

4000 Selectivity limit = 4 kA.

No selectivity.

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve C
Downstream: C120, NG125 curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**											
Selectivity limit (A)												
C120 N/H NG125 N/H/L Curve B	**10**		130	160	200	260	320	650	820	960	1300	1700
	16				200	260	320	600	760	800	900	1500
	20					65	320	400	500	640	800	1500
	25						320	400	500	640	800	1000
	32							400	500	640	800	1000
	40								500	640	800	1000
	50									640	800	1000
	63										800	1000
	80											1000
Selectivity limit (A)												
C120 N/H NG125 N/H/L Curve C	**10**		39	160	200	260	320	650	760	900	1200	1700
	16				70	110	320	400	500	640	800	1500
	20					65	124	400	500	640	800	1000
	25						89	149	500	640	800	1000
	32							123	240	640	800	1000
	40								181	269	800	1000
	50									227	800	1000
	63										800	1000
	80											1000
Selectivity limit (A)												
C120 N/H NG125 N/H/L Curve D	**10**					260	320	600	760	900	1200	1600
	16						320	400	500	640	800	1000
	20							400	500	640	800	1000
	25								500	640	800	1000
	32										800	1000
	40											1000

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: NG125N/H/L, C120N/H curve C
Downstream: C120, NG125 curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**2P (220-240 V) single-phase network**											
Selectivity limit (A)												
C120 N/H **NG125 N/H/L** Curve B	**10**		130	160	200	480	510	930	1100	1200	1700	2500
	16				200	260	320	800	990	1100	1400	2000
	20					65	320	730	910	1100	1400	1900
	25						320	730	830	960	1200	1600
	32							400	830	960	1200	1600
	40								500	640	800	1500
	50									640	800	1500
	63										800	1000
	80											1000
Selectivity limit (A)												
C120 N/H **NG125 N/H/L** Curve C	**10**		39	160	200	260	480	870	1100	1200	1700	2500
	16				70	110	320	730	910	1100	1400	2000
	20					65	124	670	830	960	1300	1700
	25						89	149	500	640	1200	1600
	32							123	240	640	800	1500
	40								181	269	800	1000
	50									227	800	1000
	63										800	1000
	80											1000
Selectivity limit (A)												
C120 N/H **NG125 N/H/L** Curve D	**10**					260	320	800	1100	1100	1600	2200
	16						320	630	830	960	1300	1900
	20							400	760	960	1300	1700
	25								500	640	800	1500
	32										800	1500
	40											1000

4000 Selectivity limit = 4 kA.

No selectivity.

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Upstream: NG125N/H/L, C120N/H curve D
Downstream: C120, NG125 curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**1P, 1P+N, 2P (380-415 V) two-phase network 3P, 3P+N, 4P**											
Selectivity limit (A)												
C120 N/H NG125 N/H/L Curve B	**10**		190	240	300	380	480	970	1300	1600	2200	2500
	16				300	380	480	600	1100	1400	2000	2300
	20					65	480	600	1100	1400	2000	2300
	25						480	600	760	960	1200	1500
	32							600	760	960	1200	1500
	40								760	960	1200	1500
	50									960	1200	1500
	63										1200	1500
	80											1500
Selectivity limit (A)												
C120 N/H NG125 N/H/L Curve C	**10**		190	240	300	380	480	970	1300	1600	2200	2500
	16				70	110	480	600	1100	1400	2000	2300
	20					65	124	600	1100	1400	2000	2300
	25						89	149	760	960	1200	1500
	32							123	240	960	1200	1500
	40								181	269	1200	1500
	50									227	1200	1500
	63										1200	1500
	80											1500
Selectivity limit (A)												
C120 N/H NG125 N/H/L Curve D	**10**		39	240	300	380	480	970	1300	1600	2200	2500
	16				70	110	480	600	1100	1400	2000	2300
	20					65	124	193	1100	1400	2000	2300
	25						89	149	236	960	1200	1500
	32							123	240	960	1200	1500
	40								181	269	1200	1500
	50									227	1200	1500
	63										1200	1500
	80											1500

4000 Selectivity limit = 4 kA.

No selectivity.

Note: if you cannot find your combination, refer to the selection table on page A-14

Selectivity table

Upstream: NG125N/H/L, C120N/H curve D
Downstream: C120, NG125 curves B, C, D

220-240/380-415 V AC

Upstream		NG125N/H/L, C120N/H Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**2P (220-240 V) single-phase network**											
Selectivity limit (A)												
C120 N/H **NG125 N/H/L** Curve B	**10**		190	240	250	380	720	1300	2000	2400	3700	4800
	16				300	380	480	1100	1600	1900	2600	3200
	20					65	480	1100	1500	1800	2600	2900
	25						480	600	1200	1400	2100	2400
	32							600	1200	1400	2100	2400
	40								760	960	1200	1500
	50									960	1200	1500
	63										1200	1500
	80											1500
Selectivity limit (A)												
C120 N/H **NG125 N/H/L** Curve C	**10**		190	240	250	380	720	1300	2000	2400	3700	4800
	16				70	110	480	1100	1600	1900	2600	3200
	20					65	124	1100	1500	1800	2600	2900
	25						89	149	1200	1400	2100	2400
	32							123	240	1400	2100	2400
	40								181	269	1200	1500
	50									227	1200	1500
	63										1200	1500
	80											1500
Selectivity limit (A)												
C120 N/H **NG125 N/H/L** Curve D	**10**		39	240	250	380	720	1300	2000	2400	3700	4800
	16				70	110	480	1100	1600	1900	2600	3200
	20					65	124	193	1500	1800	2600	2900
	25						89	149	236	1400	2100	2400
	32							123	240	1400	2100	2400
	40								181	269	1200	1500
	50									227	1200	1500
	63										1200	1500
	80											1500

4000 Selectivity limit = 4 kA.

No selectivity.

Note: the selectivity limits given in the table must be compared to the phase/neutral fault current (Ik1).
If the max. phase/earth fault current (If) is high, the selectivity of this fault current should also be verified by referring to the limits given in the dark green part of the table.

Selectivity table

Selectivity of circuit breakers

Ue ⩽ 440 V AC

Contents

Selectivity between circuit breakers

In the following tables we show the level of selectivity between two LV circuits that are protected by circuit breakers up to 440 V, 50/60 Hz systems.
This selectivity will be either:

- total: represented by a **T** (up to the breaking capacity of the downstream device)
- partial: selectivity limit current (Is) indicated
- zero: no selectivity.

A

EcoStruxure Power Design

EcoStruxure Power Design (formerly known as Ecodial) is a user-friendly software that helps you optimize your equipment and costs, while managing operating constraints during the electrical installation design phase of your project. It is part of our Customer Lifecycle Software range connected to the EcoStruxure Power platform.

Easier electrical installation design
Now it's easy to draw your single-line diagram and define properties such as load power, polarity, earthing system arrangement, cable length, and operating conditions, for example.

Reliable design
Check the consistency of choices between calculated switchgear and recommended equipment, and verify electrical network consistency for improved people safety. Anomalies are identified on the single-line diagram.

Ensure power availability
Choose the optimal selectivity plan to ensure maximum uptime and a superior cascading plan for optimized uptime/cost. Define back-up generator mode in case of power shutdown, or supply critical loads through UPS in the event of unexpected power failure.

Selectivity table

Upstream: ComPact NSXm E/B/F/N/H TM-D
Downstream: iDPN, iC40, iC60, C120, NG125

Ue ⩽ 440 V AC [1]

Upstream CB	NSXm63 E/B/F/N/H						NSXm160 E/B/F/N/H/TM-D			
Trip unit type	TM-D						TM-D			
Trip unit rating (A)	16	25	32	40	50	63	80	100	125	160
Setting Ir (A)	16	25	32	40	50	63	80	100	125	160

Downstream CB CB type	CB rating (A)	Selectivity limit (kA)									
iDPN **iDPN N** **iDPN N Vigi** **iDPN H Vigi** **All curves**	**⩽ 10**	0.5	0.5	0.5	0.5	0.6	0.8	T	T	T	T
	16			0.5	0.5	0.6	0.8	T	T	T	T
	20				0.6	0.6	0.8	T	T	T	T
	25					0.6	0.8	T	T	T	T
	32						0.8	3	T	T	T
	40							2	T	T	T
iC40 **iC40 N** **iCV40** **iCV40 N** **All curves**	**⩽ 10**	0.5	0.5	0.5	0.5	0.6	0.8	T	T	T	T
	13-16			0.5	0.5	0.6	0.8	T	T	T	T
	20				0.6	0.6	0.8	T	T	T	T
	25					0.6	0.8	T	T	T	T
	32						0.8	3	T	T	T
	40							2	T	T	T
iCV40 H **All curves**	**⩽ 10**	0.5	0.5	0.5	0.5	0.6	0.8	T	T	T	T
	13-16			0.5	0.5	0.6	0.8	T	T	T	T
	20				0.6	0.6	0.8	T	T	T	T
	25					0.6	0.8	T	T	T	T
	32						0.8	3	T	T	T
iC60 N/H Curves B, C, D	**⩽ 10**	0.5	0.5	0.5	0.5	0.6	0.8	T	T	T	T
	13-16			0.5	0.5	0.6	0.8	T	T	T	T
	20				0.5	0.6	0.8	T	T	T	T
	25					0.6	0.8	10	T	T	T
	32						0.8	3	T	T	T
	40							2	T	T	T
	50								6	8	8
	63									8	8
iC60 L Curves B, C, D, K, Z	**⩽ 10**	0.5	0.5	0.5	0.5	0.6	0.8	T	T	T	T
	13-16			0.5	0.5	0.6	0.8	T	T	T	T
	20				0.5	0.6	0.8	T	T	T	T
	25					0.6	0.8	10	T	T	T
	32						0.8	3	T	T	T
	40							2	16	16	16
	50								6	8	8
	63									8	8
iC60 RCBO Curves B, C	**⩽ 10**	0.5	0.5	0.5	0.5	0.6	0.8	T	T	T	T
	13-16			0.5	0.5	0.6	0.8	T	T	T	T
	20				0.6	0.6	0.8	T	T	T	T
	25					0.6	0.8	T	T	T	T
	32						0.8	3	T	T	T
C120 N/H Curves B, C, D	**63**									1.25	1.25
	80										1.25
	100										1.25
	125										
NG125 N/H/L Curves B, C, D	**⩽20**				0.6	0.6	0.8	0.8	1	1.25	1.25
	25						0.8	0.8	1	1.25	1.25
	32						0.8	0.8	1	1.25	1.25
	40							0.8	1	1.25	1.25
	50							0.8	1	1.25	1.25
	63									1.25	1.25
	80										1.25
	100 (N)										1.25
	125 (N)										

4	Selectivity limit = 4 kA.
T	Total selectivity, up to the breaking capacity of the downstream circuit breaker.
	No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.
[1] 220V-240V for iDPN vigi & iC60 RCBO.

Selectivity table

Upstream: ComPact NSXm E/B/F/N/H MicroLogic 4.1
Downstream: iDPN, iC40, iC60, C120, NG125

Ue ⩽ 440 V AC [1]

Upstream CB	NSXm E/B/F/N/H									
Trip unit type	MicroLogic 4.1									
Trip unit rating (A)	25		50			100			160	
Setting Ir (A)	16	25	32	40	50	63	80	100	130	160
Downstream CB CB type	CB rating (A)	Selectivity limit (kA)									
iDPN **iDPN N** **iDPN N Vigi** **iDPN H Vigi** **All curves**	**⩽ 10**	0.37	0.37	0.75	0.75	0.75	T	T	T	T	T
	13-16		0.37	0.75	0.75	0.75	T	T	T	T	T
	20				0.75	0.75	T	T	T	T	T
	25					0.75	T	T	T	T	T
	32						T	T	T	T	T
	40							T	T	T	T
iC40 **iC40 N** **iCV40** **iCV40 N** **All curves**	**⩽ 10**	0.37	0.37	0.75	0.75	0.75	T	T	T	T	T
	13-16		0.37	0.75	0.75	0.75	T	T	T	T	T
	20				0.75	0.75	T	T	T	T	T
	25					0.75	T	T	T	T	T
	32						T	T	T	T	T
	40							T	T	T	T
iCV40 H **All curves**	**⩽ 10**	0.37	0.37	0.75	0.75	0.75	T	T	T	T	T
	13-16		0.37	0.75	0.75	0.75	T	T	T	T	T
	20				0.75	0.75	T	T	T	T	T
	25					0.75	T	T	T	T	T
	32						T	T	T	T	T
iC60 N/H Curves B-C-D	**⩽ 10**	0.37	0.37	1.5	1.5	1.5	T	T	T	T	T
	13-16		0.37	0.75	0.75	0.75	T	T	T	T	T
	20				0.75	0.75	T	T	T	T	T
	25					0.75	T	T	T	T	T
	32						T	T	T	T	T
	40							T	T	T	T
	50								8	8	8
	63									8	8
iC60 L Curves B-C-D-K-Z	**⩽ 10**	0.37	0.37	1.5	1.5	1.5	T	T	T	T	T
	13-16		0.37	0.75	0.75	0.75	T	T	T	T	T
	20				0.75	0.75	T	T	T	T	T
	25					0.75	T	T	T	T	T
	32						T	T	T	T	T
	40							16	16	16	16
	50								8	8	8
	63									8	8
iC60 RCBO Curves B, C	**⩽ 10**	0.37	0.37	0.75	0.75	0.75	T	T	T	T	T
	13-16		0.37	0.75	0.75	0.75	T	T	T	T	T
	20				0.75	0.75	T	T	T	T	T
	25					0.75	T	T	T	T	T
	32						T	T	T	T	T
C120 N/H Curves B-C-D	**63**									2.4	2.4
	80										2.4
	100										2.4
	125										
NG125 N/H/L Curves B-C-D	**⩽ 20**				0.75	0.75	1.5	1.5	1.5	2.4	2.4
	25					0.75	1.5	1.5	1.5	2.4	2.4
	32						1.5	1.5	1.5	2.4	2.4
	40							1.5	1.5	2.4	2.4
	50							1.5	1.5	2.4	2.4
	63									2.4	2.4
	80										2.4
	100 (N)										2.4
	125 (N)										

4 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] 220V-240V for iDPN vigi & iC60 RCBO.

Selectivity table

Upstream: ComPact NSX100-250 TM-D
Downstream: iDPN, iC40, iC60, C120, NG125, ComPact NSXm

Ue ⩽ 440 V AC [1]

Upstream CB		NSX100B/F/N/H/S/L/R								NSX160B/F/N/H/S/L				NSX250B/F/N/H/S/L/R		
Trip unit type		TM-D								TM-D				TM-D		
Trip unit rating (A)		16	25	32	40	50	63	80	100	80	100	125	160	160	200	250
Setting Ir (A)		16	25	32	40	50	63	80	100	80	100	125	160	160	200	250
Downstream CB																
CB type	**CB rating or Trip unit rating (A)**	**Selectivity limit (kA)**														
iDPN **iDPN N** **iDPN N Vigi** **iDPN H Vigi** **All curves**	**⩽ 10**	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	13-16		0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	20			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	25					0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	32						0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	40						0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
iC40 **iC40 N** **iCV40** **iCV40 N** **iCV40 H (⩽ 32)** **All curves**	**⩽ 10**	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	13-16		0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	20			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	25					0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	32						0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	40						0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
iC60 N/H Curves B, C, D	**⩽ 10**	0.19	0.3	0.4	0.5	0.5	0.5	1	2	1	2	T	T	T	T	T
	13-16		0.3	0.4	0.5	0.5	0.5	1	2	1	2	T	T	T	T	T
	20			0.4	0.5	0.5	0.5	0.63	1.5	0.63	1.5	T	T	T	T	T
	25				0.5	0.5	0.5	0.63	1.5	0.63	1.5	T	T	T	T	T
	32						0.5	0.63	1	0.63	1	T	T	T	T	T
	40						0.5	0.63	1	0.63	1	T	T	T	T	T
	50							0.63	0.8	0.63	0.8	T	T	T	T	T
	63								0.8		0.8	T	T	T	T	T
iC60 L Curves B-C-D-K-Z	**⩽ 10**	0.19	0.3	0.4	0.5	0.5	0.5	1	2	1	2	T	T	T	T	T
	13-16		0.3	0.4	0.5	0.5	0.5	1	2	1	2	T	T	T	T	T
	20			0.4	0.5	0.5	0.5	0.63	1.5	0.63	1.5	T	T	T	T	T
	25				0.5	0.5	0.5	0.63	1.5	0.63	1.5	T	T	T	T	T
	32						0.5	0.63	1	0.63	1	T	T	T	T	T
	40						0.5	0.63	1	0.63	1	T	T	T	T	T
	50							0.63	0.8	0.63	0.8	T	T	T	T	T
	63								0.8		0.8	T	T	T	T	T
iC60 RCBO Curves B, C	**⩽ 10**		0.3	0.4	0.5	0.5	0.5	1	2	1	2	T	T	T	T	T
	13-16		0.3	0.4	0.5	0.5	0.5	1	2	1	2	T	T	T	T	T
	20			0.4	0.5	0.5	0.5	0.63	1.5	0.63	1.5	T	T	T	T	T
	25				0.5	0.5	0.5	0.63	1.5	0.63	1.5	T	T	T	T	T
	32						0.5	0.63	1	0.63	1	T	T	T	T	T
C120 N/H Curves B, C, D	**63**								0.8		0.8	2.4	2.4	2.4	T	T
	80												2.4	2.4	T	T
	100												2.4	2.4	T	T
	125															T
NG125 N/H/L Curves B, C, D	**⩽ 20**			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
	25						0.5	0.63	0.8	0.63	0.8	2.4	2.4	2.4	T	T
	32						0.5	0.63	0.8	0.63	0.8	2.4	2.4	2.4	T	T
	40							0.63	0.8	0.63	0.8	2.4	2.4	2.4	T	T
	50								0.8	0.63	0.8	2.5	2.5	2.5	T	T
	63										0.8	2.5	2.5	2.5	T	T
	80												2.5	2.5	T	T
	100 (N)														T	T
	125 (N)															T
ComPact NSXm E/B/F/N/H TM-D	**16**			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	25				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	32						0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	40							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	50							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	63								0.8		0.8	1.25	1.25	1.25	T	T
	80											1.25	1.25	1.25	T	T
	100												1.25	1.25	T	T
	125														T	T
	160															T
ComPact NSXm E/B/F/N/H MicroLogic 4.1	**25**				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	50							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	100												1.25	1.25	T	T
	160															T

4 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] 220V-240V for iDPN vigi & iC60 RCBO.

Selectivity table

Upstream: ComPact NSX100-250 MicroLogic
Downstream: iDPN, iC40, iC60, C120, NG125, ComPact NSXm

Ue ⩽ 440 V AC [1]

Upstream CB	NSX100B/F/N/H/S/L/R								NSX160B/F/N/H/S/L				NSX250B/F/N/H/S/L/R		
Trip unit type	MicroLogic [2]								MicroLogic [2]				MicroLogic [2]		
Trip unit rating (A)	40				100				160				250		
Setting Ir (A)	16	25	32	40	40	63	80	100	80	100	125	160	160	200	250
Downstream CB															
CB type / **CB rating or Trip unit rating (A)**	**Selectivity limit (kA)**														
iDPN / **iDPN N** / **iDPN N Vigi** / **iDPN H Vigi** / **All curves** — ⩽ 10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
13-16		T	T	T	T	T	T	T	T	T	T	T	T	T	T
20			T	T	T	T	T	T	T	T	T	T	T	T	T
25				T	T	T	T	T	T	T	T	T	T	T	T
32						T	T	T	T	T	T	T	T	T	T
40						T	T	T	T	T	T	T	T	T	T
iC40 / **iC40 N** / **iCV40** / **iCV40 N** / **iCV40 H (<=32)** / **All curves** — ⩽ 10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
13-16		T	T	T	T	T	T	T	T	T	T	T	T	T	T
20			T	T	T	T	T	T	T	T	T	T	T	T	T
25				T	T	T	T	T	T	T	T	T	T	T	T
32						T	T	T	T	T	T	T	T	T	T
40						T	T	T	T	T	T	T	T	T	T
iC60 N/H Curves B, C, D — ⩽ 10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
13-16		T	T	T	T	T	T	T	T	T	T	T	T	T	T
20			T	T	T	T	T	T	T	T	T	T	T	T	T
25				T	T	T	T	T	T	T	T	T	T	T	T
32						T	T	T	T	T	T	T	T	T	T
40						T	T	T	T	T	T	T	T	T	T
50							6	6	T	T	T	T	T	T	T
63								6		T	T	T	T	T	T
iC60 L Curves B-C-D-K-Z — ⩽ 10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
16		T	T	T	T	T	T	T	T	T	T	T	T	T	T
20			T	T	T	T	T	T	T	T	T	T	T	T	T
25				T	T	T	T	T	T	T	T	T	T	T	T
32						T	T	T	T	T	T	T	T	T	T
40						T	T	T	T	T	T	T	T	T	T
50							6	6	T	T	T	T	T	T	T
63								6		T	T	T	T	T	T
iC60 RCBO Curves B, C — ⩽ 10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
16		T	T	T	T	T	T	T	T	T	T	T	T	T	T
20			T	T	T	T	T	T	T	T	T	T	T	T	T
25				T	T	T	T	T	T	T	T	T	T	T	T
32						T	T	T	T	T	T	T	T	T	T
C120 N/H Curves B, C, D — 63								1.5		2.4	2.4	2.4	T	T	T
80											2.4	2.4	T	T	T
100												2.4	T	T	T
125														T	T
NG125 N/H/L Curves B, C, D — ⩽ 20			0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T	T	T
25						1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
32						1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
40						1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
50							1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
63								1.5		2.4	2.4	2.4	T	T	T
80											2.4	2.4	T	T	T
100 (N)												2.4	T	T	T
125 (N)														T	T
ComPact NSXm E/B/F/N/H TM-D — 16				0.6	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
25					1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
32						1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
40							1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
50							1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
63								1.5		2.4	2.4	2.4	T	T	T
80											2.4	2.4	T	T	T
100												2.4	T	T	T
125														T	T
160															T
ComPact NSXm E/B/F/N/H MicroLogic 4.1 — 25					1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
50							1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
100												2.4	T	T	T
160															T

4	Selectivity limit = 4 kA.
T	Total selectivity, up to the breaking capacity of the downstream circuit breaker.
	No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] 220V-240V for iDPN vigi & iC60 RCBO

[2] Applicable for all "Distribution" MicroLogic of ComPact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) MicroLogic of ComPact NSX range but curves shall be checked.
Not applicable for "Motor" MicroLogic of ComPact NSX range ("M" type).

Selectivity table

Upstream: ComPact NSX100-250 TM-D
Downstream: ComPact NSX100-250 TM-D - MicroLogic

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Upstream CB	NSX100B/F/N/H/S/L/R								NSX160B/F/N/H/S/L				NSX250B/F/N/H/S/L/R		
Trip unit type	TM-D								TM-D				TM-D		
Trip unit rating (A)	16	25	32	40	50	63	80	100	80	100	125	160	160	200	250
Setting Ir (A)	16	25	32	40	50	63	80	100	80	100	125	160	160	200	250

Downstream CB			Selectivity limit (kA)														
CB type Trip unit type	Trip unit rating (A)	Trip unit setting Ir (A)															
ComPact NSX100 B/F TM-D	**16**					0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	25						0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	32							0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	40								0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	50								0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	63									0.8		0.8	1.25	1.25	1.25	T	T
	80												1.25	1.25	1.25	T	T
	100													1.25	1.25	T	T
ComPact NSX100 N/H/S/L/R TM-D	**16**					0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	25						0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
	32							0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	36	36
	40								0.63	0.8	0.63	0.8	1.25	1.25	1.25	36	36
	50								0.63	0.8	0.63	0.8	1.25	1.25	1.25	36	36
	63									0.8		0.8	1.25	1.25	1.25	36	36
	80												1.25	1.25	1.25	36	36
	100													1.25	1.25	36	36
ComPact NSX160 B/F/N/H/S/L TM-D	**⩽ 63**												1.25	1.25	1.25	4	5
	80												1.25	1.25	1.25	4	5
	100													1.25	1.25	4	5
	160																5
ComPact NSX250 B/F/N/H/S/L/R TM-D	**⩽ 100**														1.25	2	2.5
	125															2	2.5
	160																2.5
	200																
ComPact NSX100 B/F/N/H/S/L/R MicroLogic	**40**							0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	2	2.5
	100													1.25	1.25	2	2.5
ComPact NSX160 B/F/N/H/S/L MicroLogic	**160**	**100**												1.25	1.25	2	2.5
		160															2.5
ComPact NSX250 B/F/N/H/S/L/R MicroLogic	**250**	**⩽ 100**													1.25	2	2.5
		160															2.5
		250															

4 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: ComPact NSX100-250 MicroLogic
Downstream: ComPact NSX100-250 TM-D - MicroLogic

Ue ⩽ 440 V AC

Upstream CB	NSX100B/F/N/H/S/L/R								NSX160B/F/N/H/S/L				NSX250B/F/N/H/S/L/R		
Trip unit type	MicroLogic [1]								MicroLogic [1]				MicroLogic [1]		
Trip unit rating (A)	40				100				160				250		
Setting Ir (A)	16	25	32	40	40	63	80	100	80	100	125	160	160	200	250

Downstream CB			Selectivity limit (kA)														
CB type Trip unit type	Trip unit rating (A)	Trip unit setting Ir (A)															
ComPact NSX100 B/F TM-D	**16**						1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	25						1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	32							1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	40								1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	50									1.5	2.4	2.4	2.4	2.4	T	T	T
	63											2.4	2.4	2.4	T	T	T
	80												2.4	2.4	T	T	T
	100													2.4	T	T	T
ComPact NSX100 N/H/S/L/R TM-D	**16**						1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	25						1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	32							1.5	1.5	1.5	2.4	2.4	2.4	2.4	36	36	36
	40								1.5	1.5	2.4	2.4	2.4	2.4	36	36	36
	50									1.5	2.4	2.4	2.4	2.4	36	36	36
	63											2.4	2.4	2.4	36	36	36
	80												2.4	2.4	36	36	36
	100													2.4	36	36	36
ComPact NSX160 B/F/N/H/S/L TM-D	**⩽ 63**											2.4	2.4	2.4	3	3	3
	80												2.4	2.4	3	3	3
	100													2.4	3	3	3
	160																3
ComPact NSX250 B/F/N/H/S/L/R TM-D	**⩽ 100**														3	3	3
	125															3	3
	160																3
	200																
ComPact NSX100 B/F MicroLogic	**40**							1.5	1.5	1.5	2.4	2.4	2.4	2.4	T	T	T
	100													2.4	T	T	T
ComPact NSX100 N/H/S/L/R MicroLogic	**40**							1.5	1.5	1.5	2.4	2.4	2.4	2.4	36	36	36
	100													2.4	36	36	36
ComPact NSX160 B/F/N/H/S/L MicroLogic	**160**	**100**												2.4	3	3	3
		160															3
ComPact NSX250 B/F/N/H/S/L/R MicroLogic	**250**	**⩽ 100**													3	3	3
		160															3
		250															

4 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] Applicable for all "Distribution" MicroLogic of ComPact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) MicroLogic of ComPact NSX range but curves shall be checked.
Not applicable for “Motor” MicroLogic of ComPact NSX range ("M" type).

Selectivity table

Upstream: ComPact NSX400-630 MicroLogic
Downstream: iDPN, iC40, iC60, C120, NG125, ComPact NSXm, ComPact NSX100-400

Ue ⩽ 440 V AC

Upstream CB			NSX400F/N/H/S/L/R					NSX630F/N/H/S/L/R				
Trip unit type			MicroLogic [1]					MicroLogic [1]				
Trip unit rating (A)			250			400		630				
Setting Ir (A)			160	200	250	320	400	250	320	400	500	630
Downstream CB												
CB type Trip unit type	**CB rating or Trip unit rating (A)**	**Trip unit setting Ir (A)**	**Selectivity limit (kA)**									
iDPN, iDPN N			T	T	T	T	T	T	T	T	T	T
iC40, iC40 N, iCV40 N, iCV40 H			T	T	T	T	T	T	T	T	T	T
iC60 N/H/L, iC60 RCBO			T	T	T	T	T	T	T	T	T	T
C120 N/H	**⩽ 80**		T	T	T	T	T	T	T	T	T	T
	100			T	T	T	T	T	T	T	T	T
	125				T	T	T	T	T	T	T	T
NG125 N/H/L	**⩽ 80**		T	T	T	T	T	T	T	T	T	T
	100			T	T	T	T	T	T	T	T	T
	125				T	T	T	T	T	T	T	T
ComPact NSXm E/B/F/N/H TM-D	**⩽ 100**		T	T	T	T	T	T	T	T	T	T
	125			T	T	T	T	T	T	T	T	T
	160				T	T	T	T	T	T	T	T
ComPact NSXm E/B/F/N/H MicroLogic 4.1	**25**		T	T	T	T	T	T	T	T	T	T
	50		T	T	T	T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T	T	T	T
	160				T	T	T	T	T	T	T	T
ComPact NSX100 B/F/N/H/S/L/R TM-D	**⩽ 80**		T	T	T	T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T	T	T	T
ComPact NSX160 B/F/N/H/S/L TM-D	**⩽ 100**		T	T	T	T	T	T	T	T	T	T
	125			T	T	T	T	T	T	T	T	T
	160				T	T	T	T	T	T	T	T
ComPact NSX250 B/F/N/H/S/L/R TM-D	**⩽ 100**		4.8	4.8	4.8	4.8	4.8	T	T	T	T	T
	125			4.8	4.8	4.8	4.8	T	T	T	T	T
	160				4.8	4.8	4.8	T	T	T	T	T
	200					4.8	4.8		T	T	T	T
	250						4.8			T	T	T
ComPact NSX100 B/F/N/H/S/L/R MicroLogic	**40**		T	T	T	T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T	T	T	T
ComPact NSX160 B/F/N/H/S/L MicroLogic	**160**	**100**	T	T	T	T	T	T	T	T	T	T
		160			T	T	T	T	T	T	T	T
ComPact NSX250 B/F/N/H/S/L/R MicroLogic	**250**	**⩽ 100**	4.8	4.8	4.8	4.8	4.8	T	T	T	T	T
		160			4.8	4.8	4.8	T	T	T	T	T
		250					4.8			T	T	T
ComPact NSX400 F/N/H/S/L/R MicroLogic	**400**	**160**						6.9	6.9	6.9	6.9	6.9
		200							6.9	6.9	6.9	6.9
		250								6.9	6.9	6.9
		320									6.9	6.9
		400										6.9

4 Selectivity limit = 4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.
[1] Applicable for all "Distribution" MicroLogic of ComPact NSX range: 2.3, 4.3, 5.3, 6.3, 7.3. For 4.3 and 7.3 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) MicroLogic of ComPact NSX range but curves shall be checked.
Not applicable for “Motor” MicroLogic of ComPact NSX range ("M" type).

Selectivity table

Upstream: ComPact NS630b-1600N/H MicroLogic
Downstream: iDPN, iC40, iC60, C120, NG125, ComPact NSXm, NSX100-630

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Upstream CB			ComPact NS630b/800/1000/1250/1600N/H																				
Trip unit type			MicroLogic 2.0 Isd = 10 Ir							MicroLogic 5.0 - 6.0 - 7.0 Inst 15 In								MicroLogic 5.0 - 6.0 - 7.0 Inst OFF						
Trip unit rating In (A)			630			800	1000	1250	1600	630			800	1000	1250	1600		630			800	1000	1250	1600
Setting Ir (A)			250	400	630	800	1000	1250	1600	250	400	630	800	1000	1250	1600		250	400	630	800	1000	1250	1600
Downstream CB																								
CB type Trip unit type	**CB rating or Trip unit rating (A)**	**Trip unit setting Ir (A)**	**Selectivity limit (kA)**																				
iDPN, iDPN N			T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
iC40, iC40 N, iCV40 N, iCV40 H			T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
iC60 N/H/L, iC60 RCBO			T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
C120 N/H			T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
NG125 N/H			T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
NG125 L			T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
ComPact NSXm E/B/F/N/H			T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
ComPact NSX100 B/F/N/H/S/L/R TM-D			T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
ComPact NSX160 B/F/N/H/S/L TM-D			T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
ComPact NSX250 B/F/N/H/S/L/R TM-D	**⩽ 125**		T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
	160		T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
	200			T	T	T	T	T	T		T	T	T	T	T	T			T	T	T	T	T	T
	250			T	T	T	T	T	T		T	T	T	T	T	T			T	T	T	T	T	T
ComPact NSX100 B/F/N/H/S/L/R MicroLogic	**40**		T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
ComPact NSX160 B/F/N/H/S/L MicroLogic	**100**		T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
	160		T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
ComPact NSX250 B/F/N/H/S/L/R MicroLogic	**⩽ 100**		T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
	160		T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
	250			T	T	T	T	T	T	T	T	T	T	T	T	T			T	T	T	T	T	T
ComPact NSX400 F/N/H MicroLogic	**400**	**160**	T	T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
		200		T	T	T	T	T	T		T	T	T	T	T	T			T	T	T	T	T	T
		250		T	T	T	T	T	T		T	T	T	T	T	T			T	T	T	T	T	T
		320			T	T	T	T	T			T	T	T	T	T				T	T	T	T	T
		400			T	T	T	T	T			T	T	T	T	T				T	T	T	T	T
ComPact NSX400 S/L/R MicroLogic	**400**	**160**	90	90	90	90	90	90	90	90	90	90	90	90	90	90		90	90	90	90	90	90	90
		200		90	90	90	90	90	90		90	90	90	90	90	90			90	90	90	90	90	90
		250		90	90	90	90	90	90		90	90	90	90	90	90			90	90	90	90	90	90
		320			90	90	90	90	90			90	90	90	90	90				90	90	90	90	90
		400			90	90	90	90	90			90	90	90	90	90				90	90	90	90	90
ComPact NSX630 F/N MicroLogic	**630**	**250**		T	T	T	T	T	T		T	T	T	T	T	T			T	T	T	T	T	T
		320			T	T	T	T	T			T	T	T	T	T				T	T	T	T	T
		400			T	T	T	T	T			T	T	T	T	T				T	T	T	T	T
		500				T	T	T	T				T	T	T	T					T	T	T	T
		630					T	T	T					T	T	T					T	T	T	T
ComPact NSX630 H/S/L/R MicroLogic	**630**	**250**		65	65	65	65	65	65		65	65	65	65	65	65			65	65	65	65	65	65
		320			65	65	65	65	65			65	65	65	65	65				65	65	65	65	65
		400			65	65	65	65	65			65	65	65	65	65				65	65	65	65	65
		500				65	65	65	65				65	65	65	65					65	65	65	65
		630					65	65	65					65	65	65						65	65	65

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: ComPact NS630b-1600N/H MicroLogic
Downstream: ComPact NS630b-1600

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Upstream CB	ComPact NS630b/800/1000/1250/1600N/H																	
Trip unit type	MicroLogic 2.0 Isd = 10 Ir						MicroLogic 5.0 - 6.0 - 7.0 Inst 15 In						MicroLogic 5.0 - 6.0 - 7.0 Inst OFF					
Trip unit rating In (A)	630		800	1000	1250	1600	630		800	1000	1250	1600	630		800	1000	1250	1600
Setting Ir (A)	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600

Downstream CB		Selectivity limit (kA)																	
CB type / Trip unit type	Trip unit setting Ir (A)																		
ComPact NS630b N/H MicroLogic	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18	18	18	18	18	18	18	18
	320		6.3	8	10	12.5	16		9.4	12	15	18	18		18	18	18	18	18
	400		6.3	8	10	12.5	16		9.4	12	15	18	18		18	18	18	18	18
	500			8	10	12.5	16			12	15	18	18			18	18	18	18
	630				10	12.5	16				15	18	18				18	18	18
ComPact NS800 N/H MicroLogic	**320**		6.3	8	10	12.5	16		9.4	12	15	18	18		18	18	18	18	18
	400		6.3	8	10	12.5	16		9.4	12	15	18	18		18	18	18	18	18
	500			8	10	12.5	16			12	15	18	18			18	18	18	18
	630				10	12.5	16				15	18	18			18	18	18	18
	800					12.5	16					18	18				18	18	18
ComPact NS1000 N/H MicroLogic	**400**		6.3	8	10	12.5	16		9.4	12	15	18	18		18	18	18	18	18
	500			8	10	12.5	16			12	15	18	18			18	18	18	18
	630				10	12.5	16				15	18	18				18	18	18
	800					12.5	16					18	18					18	18
	1000						16						18						18
ComPact NS1250 N/H MicroLogic	**500**			8	10	12.5	16			12	15	18	18			18	18	18	18
	630				10	12.5	16				15	18	18				18	18	18
	800					12.5	16					18	18					18	18
	1000						16						18						18
	1250																		
ComPact NS1600 N/H MicroLogic	**630**				10	12.5	16				15	18	18				18	18	18
	800					12.5	16					18	18					18	18
	960						16						18						18
	1250																		
	1600																		
ComPact NS630b L/LB MicroLogic	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18.7	24	30	30	30	30	30	30
	320		6.3	8	10	12.5	16		9.4	12	15	18.7	24		30	30	30	30	30
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		30	30	30	30	30
	500			8	10	12.5	16			12	15	18.7	24			30	30	30	30
	630				10	12.5	16				15	18.7	24				30	30	30
ComPact NS800 L/LB MicroLogic	**320**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		30	30	30	30	30
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		30	30	30	30	30
	500			8	10	12.5	16			12	15	18.7	24			30	30	30	30
	630				10	12.5	16				15	18.7	24				30	30	30
	800					12.5	16					18.7	24					30	30
ComPact NS1000 L MicroLogic	**400**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		30	30	30	30	30
	500			8	10	12.5	16			12	15	18.7	24			30	30	30	30
	630				10	12.5	16				15	18.7	24				30	30	30
	800					12.5	16					18.7	24					30	30
	1000						16						24						30

4 Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Com**Pact** NS1600b-3200N MicroLogic
Downstream: iDPN, iC40, iC60, C120, NG125, Com**Pact** NSXm, NSX100-630, NS630b-3200

A

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Upstream CB		ComPact NS1600b/2000/2500/3200N											
Trip unit type		MicroLogic 2.0 Isd = 10 Ir				MicroLogic 5.0 - 6.0 - 7.0 Inst 15 In				MicroLogic 5.0 - 6.0 - 7.0 Inst OFF			
Trip unit rating In (A)		1600	2000	2500	3200	1600	2000	2500	3200	1600	2000	2500	3200
Setting Ir (A)		1600	2000	2500	3200	1600	2000	2500	3200	1600	2000	2500	3200
Downstream CB													
CB type Trip unit type	**CB rating or Trip unit rating (A)**	**Selectivity limit (kA)**											
iDPN, iDPN N		T	T	T	T	T	T	T	T	T	T	T	T
iC40, iC40 N, ICV40 N, iCV40 H		T	T	T	T	T	T	T	T	T	T	T	T
iC60 N/H/L, iC60 RCBO		T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H		T	T	T	T	T	T	T	T	T	T	T	T
NG125 N/H		T	T	T	T	T	T	T	T	T	T	T	T
NG125 L		T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSXm E/B/F/N/H		T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX B/F/N/H/S/L/R TM-D	**NSX100**	T	T	T	T	T	T	T	T	T	T	T	T
	NSX160	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX B/F/N/H/S/L/R MicroLogic	**NSX100**	T	T	T	T	T	T	T	T	T	T	T	T
	NSX160	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX F/N/H/S/L/R	**NSX400**	T	T	T	T	T	T	T	T	T	T	T	T
	NSX630	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NS N	**NS630b**	16	20	25	32	24	30	37.5	48	T	T	T	T
	NS800	16	20	25	32	24	30	37.5	48	T	T	T	T
	NS1000	16	20	25	32	24	30	37.5	48	T	T	T	T
	NS1250		20	25	32		30	37.5	48		T	T	T
	NS1600			25	32			37.5	48			T	T
ComPact NS H	**NS630b**	16	20	25	32	24	30	37.5	48	60	60	60	60
	NS800	16	20	25	32	24	30	37.5	48	60	60	60	60
	NS1000	16	20	25	32	24	30	37.5	48	60	60	60	60
	NS1250		20	25	32		30	37.5	48		60	60	60
	NS1600			25	32			37.5	48			60	60
ComPact NS N/H	**NS1600b**			25	32			37.5	48			60	60
	NS2000				32				48				60
	NS2500												
	NS3200												
ComPact NS L/LB	**NS630bL/LB**	T	T	T	T	T	T	T	T	T	T	T	T
	NS800L/LB	T	T	T	T	T	T	T	T	T	T	T	T
	NS1000L	T	T	T	T	T	T	T	T	T	T	T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Com**Pact** NS1600b-3200H MicroLogic
Downstream: iDPN, iC60, C120, NG125, NSX100-630, NS630b-3200

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Upstream CB		ComPact NS1600b/2000/2500/3200H											
Trip unit type		MicroLogic 2.0 Isd = 10 Ir				MicroLogic 5.0 - 6.0 - 7.0 Inst 15 In				MicroLogic 5.0 - 6.0 - 7.0 Inst OFF			
Trip unit rating In (A)		1600	2000	2500	3200	1600	2000	2500	3200	1600	2000	2500	3200
Setting Ir (A)		1600	2000	2500	3200	1600	2000	2500	3200	1600	2000	2500	3200
Downstream CB		Selectivity limit (kA)											
CB type / Trip unit type	**CB rating or Trip unit rating (A)**												
iDPN, iDPN N		T	T	T	T	T	T	T	T	T	T	T	T
iC40, iC40 N, ICV40 N, iCV40 H		T	T	T	T	T	T	T	T	T	T	T	T
iC60 N/H/L, iC60 RCBO		T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H		T	T	T	T	T	T	T	T	T	T	T	T
NG125 N/H		T	T	T	T	T	T	T	T	T	T	T	T
NG125 L		T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]
ComPact NSXm E/B/F		T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSXm N/H		T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]
ComPact NSX B/F TM-D	**NSX100**	T	T	T	T	T	T	T	T	T	T	T	T
	NSX160	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX B/F MicroLogic	**NSX100**	T	T	T	T	T	T	T	T	T	T	T	T
	NSX160	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX F	**NSX400**	T	T	T	T	T	T	T	T	T	T	T	T
	NSX630	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX N/H/S/L/R TM-D	**NSX100**	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]
	NSX250	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]
ComPact NSX160 N/H/S/L TM-D		T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]
ComPact NSX N/H/S/L/R MicroLogic	**NSX100**	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]
	NSX250	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]
ComPact NSX160 N/H/S/L MicroLogic		T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]
ComPact NSX N/H/S/L/R	**NSX400**	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]
	NSX630	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]	T[1]
ComPact NS N	**NS630b**	16	20	25	32	24	30	37.5	42[1]	42[1]	42[1]	42[1]	42[1]
	NS800	16	20	25	32	24	30	37.5	42[1]	42[1]	42[1]	42[1]	42[1]
	NS1000	16	20	25	32	24	30	37.5	42[1]	42[1]	42[1]	42[1]	42[1]
	NS1250		20	25	32		30	37.5	42[1]		42[1]	42[1]	42[1]
	NS1600			25	32			37.5	42[1]			42[1]	42[1]
ComPact NS H	**NS630b**	16	20	25	32	24	30	37.5	42[1]	42[1]	42[1]	42[1]	42[1]
	NS800	16	20	25	32	24	30	37.5	42[1]	42[1]	42[1]	42[1]	42[1]
	NS1000	16	20	25	32	24	30	37.5	42[1]	42[1]	42[1]	42[1]	42[1]
	NS1250		20	25	32		30	37.5	42[1]		42[1]	42[1]	42[1]
	NS1600			25	32			37.5	42[1]			42[1]	42[1]
ComPact NS N/H	**NS1600b**			25	32			37.5	42[1]			42[1]	42[1]
	NS2000				32				42[1]				42[1]
	NS2500												
	NS3200												
ComPact NS L/LB	**NS630bL/LB**	T	T	T	T	T	T	T	T	T	T	T	T
	NS800L/LB	T	T	T	T	T	T	T	T	T	T	T	T
	NS1000L	T	T	T	T	T	T	T	T	T	T	T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

[1] 40 kA for ComPact NS1600b..3200H manufactured before 2015.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: ComPact NS630b-1000L, ComPact NS630b-800LB MicroLogic
Downstream: iDPN, iC40, iC60, C120, NG125, ComPact NSXm, NSX100-630

Ue ⩽ 440 V AC

Upstream CB	ComPact NS630b/800/1000L ComPact NS630b/800LB														
Trip unit type	MicroLogic 2.0 Isd = 10 Ir					MicroLogic 5.0 - 6.0 - 7.0 Inst 15 In					MicroLogic 5.0 - 6.0 - 7.0 Inst OFF				
Trip unit rating In (A)	630			800	1000	630			800	1000	630			800	1000
Setting Ir (A)	250	400	630	800	1000	250	400	630	800	1000	250	400	630	800	1000

Downstream CB			Selectivity limit (kA)													
CB type Trip unit type	CB rating or Trip unit rating (A)	Trip unit setting Ir (A)														
iDPN, iDPN N			T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC40, iC40 N, iCV40 N, iCV40 H			T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60 N/H/L, iC60 RCBO			T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H			T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125 N/H			T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125 L			T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSXm E/B/F/N/H			T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX100 B/F/N/H/S/L/R TM-D			T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160 B/F TM-D			T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160 N/H/S/L TM-D			36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
ComPact NSX250 B/F/N/H/S/L/R TM-D	⩽ 125		20	20	20	T	T	20	20	20	T	T	20	20	20	T	T
	160		20	20	20	T	T	20	20	20	T	T	20	20	20	T	T
	200			20	20	T	T		20	20	T	T		20	20	T	T
	250			20	20	T	T		20	20	T	T		20	20	T	T
ComPact NSX100 B/F/N/H/S/L/R MicroLogic	40		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160 B/F MicroLogic	160	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
		160	T	T	T	T	T	T	T	T	T	T		T	T	T	T
ComPact NSX160 N/H/S/L MicroLogic	160	100	36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
		160	36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
ComPact NSX250 B/F/N/H/S/L/R MicroLogic	250	⩽ 100	20	20	20	T	T	20	20	20	T	T	20	20	20	T	T
		160		20	20	T	T		20	20	T	T		20	20	T	T
		250		20	20	T	T		20	20	T	T		20	20	T	T
ComPact NSX400 F/N/H/S/L/R MicroLogic	400	160	6.3	6.3	6.3	10	15	6.3	6.3	6.3	10	15	6.3	6.3	6.3	10	15
		200		6.3	6.3	10	15		6.3	6.3	10	15		6.3	6.3	10	15
		250		6.3	6.3	10	15		6.3	6.3	10	15		6.3	6.3	10	15
		320		6.3	6.3	10	15			6.3	10	15			6.3	10	15
		400			6.3	10	15			6.3	10	15			6.3	10	15
ComPact NSX630 F/N/H/S/L/R MicroLogic	630	250		6.3	6.3	8	10		6.3	6.3	8	10		6.3	6.3	8	10
		320			6.3	8	10			6.3	8	10			6.3	8	10
		400			6.3	8	10			6.3	8	10			6.3	8	10
		500				8	10				8	10				8	10
		630					10					10					10

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: ComPact NS630b-1000L, ComPact NS630b-800LB MicroLogic
Downstream: ComPact NS630b-1000

Ue ⩽ 440 V AC

Upstream CB	ComPact NS630b/800/1000L ComPact NS630b/800LB														
Trip unit type	MicroLogic 2.0 Isd = 10 Ir					MicroLogic 5.0 - 6.0 - 7.0 Inst 15 In					MicroLogic 5.0 - 6.0 - 7.0 Inst OFF				
Trip unit rating In (A)	630			800	1000	630			800	1000	630			800	1000
Setting Ir (A)	250	400	630	800	1000	250	400	630	800	1000	250	400	630	800	1000

Downstream CB CB type Trip unit type	Trip unit setting Ir (A)	Selectivity limit (kA)														
ComPact NS630b N/H MicroLogic	250		6.3	6.3	8	10		6.3	6.3	8	10		6.3	6.3	8	10
	320			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
ComPact NS800 N/H MicroLogic	320			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
	800															
ComPact NS1000 N/H MicroLogic	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
	800															
	1000															
ComPact NS630b L/LB MicroLogic	250		6.3	6.3	8	10		6.3	6.3	8	10		6.3	6.3	8	10
	320			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
ComPact NS800 L/LB MicroLogic	320			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
	800															
ComPact NS1000 L MicroLogic	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
	800															
	1000															

4 Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ1 06-16 H1/H2/H3 MicroLogic X
Downstream: iDPN, iC40, iC60, C120, NG125, Com**Pact** NSXm, NSX100-630

Ue ⩽ 440 V AC

Upstream CB	MasterPact MTZ1 06/08/10/12/16 H1/H2/H3																						
Trip unit type	MicroLogic 2.0X Isd = 10 Ir							MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard								MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF							
Trip unit rating In (A)	630			800	1000	1250	1600	630			800	1000	1250	1600		630			800	1000	1250	1600	
Setting Ir (A)	250	400	630	800	1000	1250	1600	250	400	630	800	1000	1250	1600		250	400	630	800	1000	1250	1600	

Downstream CB			Selectivity limit (kA)																				
CB type Trip unit type	CB rating or Trip unit rating (A)	Trip unit setting Ir (A)																					
iDPN, iDPN N			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC40, iC40 N, iCV40 N, iCV40 H			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60 N/H/L, iC60 RCBO			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125 N/H			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125 L			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSXm E/B/F/N/H			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX100 B/F/N/H/S/L/R TM-D			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160 B/F/N/H/S/L TM-D			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX250 B/F/N/H/S/L/R TM-D	⩽ 125		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	200			T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	250			T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
ComPact NSX100 B/F/N/H/S/L/R MicroLogic	40		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160 B/F/N/H/S/L MicroLogic	40		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX250 B/F/N/H/S/L/R MicroLogic	250	⩽ 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
		160	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
		250		T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T
ComPact NSX400 F/N/H/S/L/R MicroLogic	400	160	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
		200		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
		250		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
		320			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
		400			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
ComPact NSX630 F/N/H/S/L/R MicroLogic	630	250		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
		320			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
		400			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
		500				T	T	T	T				T	T	T	T				T	T	T	T
		630					T	T	T					T	T	T					T	T	T

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ1 06-16 H1 MicroLogic X
Downstream: Com**Pact** NS630b-1600 MicroLogic A/E/P

Ue ⩽ 440 V AC

Upstream CB	MasterPact MTZ1 06/08/10/12/16 H1																	
Trip unit type	MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)	630		800	1000	1250	1600	630		800	1000	1250	1600	630		800	1000	1250	1600
Setting Ir (A)	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600

Downstream CB		Selectivity limit (kA)																
CB type Trip unit type	Trip unit setting Ir (A)																	
ComPact NS630b N/H MicroLogic	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18.7	24	T	T	T	T	T	T
	320		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	500			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24				T	T	T
ComPact NS800 N/H MicroLogic	**320**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	500			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24			T	T	T	T
	800					12.5	16					18.7	24				T	T	T
ComPact NS1000 N/H MicroLogic	**400**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	500			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24				T	T	T
	800					12.5	16					18.7	24					T	T
	1000						16						24						T
ComPact NS1250 N/H MicroLogic	**500**			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24				T	T	T
	800					12.5	16					18.7	24					T	T
	1000						16						24						T
	1250																		
ComPact NS1600 N/H MicroLogic	**630**				10	12.5	16				15	18.7	24				T	T	T
	800					12.5	16					18.7	24					T	T
	960						16						24						T
	1250																		
	1600																		
ComPact NS630b L/LB MicroLogic	**250**	4	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	400		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	500			8	T	T	T			T	T	T	T			T	T	T	T
	630				T	T	T				T	T	T				T	T	T
ComPact NS800 L/LB MicroLogic	**320**		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	400		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	500			8	10	T	T			T	T	T	T			T	T	T	T
	630				10	T	T				T	T	T				T	T	T
	800					12.5	T					T	T					T	T
ComPact NS1000 L MicroLogic	**400**		6.3	8	10	12.5	T		9.4	12	T	T	T		T	T	T	T	T
	500			8	10	12.5	T			12	T	T	T			T	T	T	T
	630				10	12.5	T				T	T	T				T	T	T
	800					12.5	T					T	T					T	T
	1000						T						T						T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ1 06-16 H1 MicroLogic X
Downstream: Master**Pact** MTZ1 06-16

Ue ⩽ 440 V AC

Upstream CB	MasterPact MTZ1 06/08/10/12/16 H1																	
Trip unit type	MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)	630		800	1000	1250	1600	630		800	1000	1250	1600	630		800	1000	1250	1600
Setting Ir (A)	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600

Downstream CB		Selectivity limit (kA)																	
CB type Trip unit type	Trip unit setting Ir (A)																		
MasterPact MTZ1 06 H1/H2/H3 MicroLogic	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18.7	24	T	T	T	T	T	T
	320		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	500			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24				T	T	T
MasterPact MTZ1 08 H1/H2/H3 MicroLogic	**320**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	500			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24			T	T	T	T
	800					12.5	16					18.7	24				T	T	T
MasterPact MTZ1 10 H1/H2/H3 MicroLogic	**400**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		T	T	T	T	T
	500			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24				T	T	T
	800					12.5	16					18.7	24					T	T
	1000						16						24						T
MasterPact MTZ1 12 H1/H2/H3 MicroLogic	**500**			8	10	12.5	16			12	15	18.7	24			T	T	T	T
	630				10	12.5	16				15	18.7	24				T	T	T
	800					12.5	16					18.7	24					T	T
	1000						16						24						T
	1250																		
MasterPact MTZ1 16 H1/H2/H3 MicroLogic	**630**				10	12.5	16				15	18.7	24				T	T	T
	800					12.5	16					18.7	24					T	T
	960						16						24						T
	1250																		
	1600																		
MasterPact MTZ1 06 L1 MicroLogic	**250**	4	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	400		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	500			8	T	T	T			T	T	T	T			T	T	T	T
	630				T	T	T				T	T	T				T	T	T
MasterPact MTZ1 08 L1 MicroLogic	**320**		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	400		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	500			8	10	T	T			T	T	T	T			T	T	T	T
	630				10	T	T				T	T	T				T	T	T
	800					T	T					T	T					T	T
MasterPact MTZ1 10 L1 MicroLogic	**400**		6.3	8	10	12.5	T		9.4	12	T	T	T		T	T	T	T	T
	500			8	10	12.5	T			12	T	T	T			T	T	T	T
	630				10	12.5	T				T	T	T				T	T	T
	800					12.5	T					T	T					T	T
	1000						T						T						T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ1 06-16 H2 MicroLogic X
Downstream: Com**Pact** NS630b-1600 MicroLogic A/E/P

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Upstream CB	MasterPact MTZ1 06/08/10/12/16 H2																	
Trip unit type	MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)	630		800	1000	1250	1600	630		800	1000	1250	1600	630		800	1000	1250	1600
Setting Ir (A)	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600

Downstream CB		Selectivity limit (kA)																	
CB type Trip unit type	Trip unit setting Ir (A)																		
ComPact NS630b N/H MicroLogic	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18.7	24	42	42	42	42	42	42
	320		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	500			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24				42	42	42
ComPact NS800 N/H MicroLogic	**320**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	500			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24			42	42	42	42
	800					12.5	16					18.7	24				42	42	42
ComPact NS1000 N/H MicroLogic	**400**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	500			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24				42	42	42
	800					12.5	16					18.7	24					42	42
	1000						16						24						42
ComPact NS1250 N/H MicroLogic	**500**			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24				42	42	42
	800					12.5	16					18.7	24					42	42
	1000						16						24						42
	1250																		
ComPact NS1600 N/H MicroLogic	**630**				10	12.5	16				15	18.7	24				42	42	42
	800					12.5	16					18.7	24					42	42
	960						16						24						42
	1250																		
	1600																		
ComPact NS630b L/LB MicroLogic	**250**	4	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	400		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	500			8	T	T	T			T	T	T	T			T	T	T	T
	630				T	T	T				T	T	T				T	T	T
ComPact NS800 L/LB MicroLogic	**320**		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	400		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	500			8	10	T	T			T	T	T	T			T	T	T	T
	630				10	T	T				T	T	T				T	T	T
	800					T	T					T	T					T	T
ComPact NS1000 L MicroLogic	**400**		6.3	8	10	12.5	T		9.4	12	T	T	T		T	T	T	T	T
	500			8	10	12.5	T			12	T	T	T			T	T	T	T
	630				10	12.5	T				T	T	T				T	T	T
	800					12.5	T					T	T					T	T
	1000						T						T						T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ1 06-16 H2 MicroLogic X
Downstream: Master**Pact** MTZ1 06-16

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Upstream CB	MasterPact MTZ1 06/08/10/12/16 H2																	
Trip unit type	MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)	630		800	1000	1250	1600	630		800	1000	1250	1600	630		800	1000	1250	1600
Setting Ir (A)	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600

Downstream CB		Selectivity limit (kA)																	
CB type / Trip unit type	Trip unit setting Ir (A)																		
MasterPact MTZ1 06 H1/H2/H3 MicroLogic	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18.7	24	42	42	42	42	42	42
	320		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	500			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24				42	42	42
MasterPact MTZ1 08 H1/H2/H3 MicroLogic	**320**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	500			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24			42	42	42	42
	800					12.5	16					18.7	24				42	42	42
MasterPact MTZ1 10 H1/H2/H3 MicroLogic	**400**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		42	42	42	42	42
	500			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24				42	42	42
	800					12.5	16					18.7	24					42	42
	1000						16						24						42
MasterPact MTZ1 12 H1/H2/H3 MicroLogic	**500**			8	10	12.5	16			12	15	18.7	24			42	42	42	42
	630				10	12.5	16				15	18.7	24				42	42	42
	800					12.5	16					18.7	24					42	42
	1000						16						24						42
	1250																		
MasterPact MTZ1 16 H1/H2/H3 MicroLogic	**630**				10	12.5	16				15	18.7	24				42	42	42
	800					12.5	16					18.7	24					42	42
	960						16						24						42
	1250																		
	1600																		
MasterPact MTZ1 06 L1 MicroLogic	**250**	4	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	400		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	500			8	T	T	T			T	T	T	T			T	T	T	T
	630				T	T	T				T	T	T				T	T	T
MasterPact MTZ1 08 L1 MicroLogic	**320**		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	400		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	500			8	10	T	T			T	T	T	T			T	T	T	T
	630				10	T	T				T	T	T				T	T	T
	800					T	T					T	T					T	T
MasterPact MTZ1 10 L1 MicroLogic	**400**		6.3	8	10	12.5	T		9.4	12	T	T	T		T	T	T	T	T
	500			8	10	12.5	T			12	T	T	T			T	T	T	T
	630				10	12.5	T				T	T	T				T	T	T
	800					12.5	T					T	T					T	T
	1000						T						T						T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ1 06-16 H3 MicroLogic X
Downstream: Com**Pact** NS630b-1600 MicroLogic A/E/P

Ue ⩽ 440 V AC

Upstream CB	MasterPact MTZ1 06/08/10/12/16 H3																	
Trip unit type	MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)	630		800	1000	1250	1600	630		800	1000	1250	1600	630		800	1000	1250	1600
Setting Ir (A)	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600
Downstream CB																		
CB type / Trip unit type	**Trip unit setting Ir (A)**	**Selectivity limit (kA)**																
ComPact NS630b N/H MicroLogic	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18.7	24	50	50	50	50	50	50
	320		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	500			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24				50	50	50
ComPact NS800 N/H MicroLogic	**320**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	500			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24			50	50	50	50
	800					12.5	16					18.7	24				50	50	50
ComPact NS1000 N/H MicroLogic	**400**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	500			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24				50	50	50
	800					12.5	16					18.7	24					50	50
	1000						16						24						50
ComPact NS1250 N/H MicroLogic	**500**			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24				50	50	50
	800					12.5	16					18.7	24					50	50
	1000						16						24						50
	1250																		
ComPact NS1600 N/H MicroLogic	**630**				10	12.5	16				15	18.7	24				50	50	50
	800					12.5	16					18.7	24					50	50
	960						16						24						50
	1250																		
	1600																		
ComPact NS630b L/LB MicroLogic	**250**	4	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	400		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	500			8	T	T	T			T	T	T	T			T	T	T	T
	630				T	T	T				T	T	T				T	T	T
ComPact NS800 L/LB MicroLogic	**320**		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	400		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	500			8	10	T	T			T	T	T	T			T	T	T	T
	630				10	T	T				T	T	T				T	T	T
	800					T	T					T	T					T	T
ComPact NS1000 L MicroLogic	**400**		6.3	8	10	12.5	T		9.4	12	T	T	T		T	T	T	T	T
	500			8	10	12.5	T			12	T	T	T			T	T	T	T
	630				10	12.5	T				T	T	T				T	T	T
	800					12.5	T					T	T					T	T
	1000						T						T						T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ1 06-16 H3 MicroLogic X
Downstream: Master**Pact** MTZ1 06-16

A

Ue ⩽ 440 V AC

Upstream CB	MasterPact MTZ1 06/08/10/12/16 H3																	
Trip unit type	MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)	630		800	1000	1250	1600	630		800	1000	1250	1600	630		800	1000	1250	1600
Setting Ir (A)	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600	400	630	800	1000	1250	1600

Downstream CB		Selectivity limit (kA)																	
CB type / Trip unit type	Trip unit setting Ir (A)																		
MasterPact MTZ1 06 H1/H2/H3 MicroLogic	**250**	4	6.3	8	10	12.5	16	9.4	9.4	12	15	18.7	24	50	50	50	50	50	50
	320		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	500			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24				50	50	50
MasterPact MTZ1 08 H1/H2/H3 MicroLogic	**320**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	400		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	500			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24			50	50	50	50
	800					12.5	16					18.7	24				50	50	50
MasterPact MTZ1 10 H1/H2/H3 MicroLogic	**400**		6.3	8	10	12.5	16		9.4	12	15	18.7	24		50	50	50	50	50
	500			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24				50	50	50
	800					12.5	16					18.7	24					50	50
	1000						16						24						50
MasterPact MTZ1 12 H1/H2/H3 MicroLogic	**500**			8	10	12.5	16			12	15	18.7	24			50	50	50	50
	630				10	12.5	16				15	18.7	24				50	50	50
	800					12.5	16					18.7	24					50	50
	1000						16						24						50
	1250																		
MasterPact MTZ1 16 H1/H2/H3 MicroLogic	**630**				10	12.5	16				15	18.7	24				50	50	50
	800					12.5	16					18.7	24					50	50
	960						16						24						50
	1250																		
	1600																		
MasterPact MTZ1 06 L1 MicroLogic	**250**	4	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	400		6.3	8	T	T	T		T	T	T	T	T		T	T	T	T	T
	500			8	T	T	T			T	T	T	T			T	T	T	T
	630				T	T	T				T	T	T				T	T	T
MasterPact MTZ1 08 L1 MicroLogic	**320**		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	400		6.3	8	10	T	T		9.4	T	T	T	T		T	T	T	T	T
	500			8	10	T	T			T	T	T	T			T	T	T	T
	630				10	T	T				T	T	T				T	T	T
	800					T	T					T	T					T	T
MasterPact MTZ1 10 L1 MicroLogic	**400**		6.3	8	10	12.5	T		9.4	12	T	T	T		T	T	T	T	T
	500			8	10	12.5	T			12	T	T	T			T	T	T	T
	630				10	12.5	T				T	T	T				T	T	T
	800					12.5	T					T	T					T	T
	1000						T						T						T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ1 06-10 L1 MicroLogic X
Downstream: iDPN, iC40, iC60, C120, NG125, Com**Pact** NSXm, NSX100-630

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Upstream CB			MasterPact MTZ1 06/08/10 L1														
Trip unit type			MicroLogic 2.0X Isd = 10 Ir					MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard					MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF				
Trip unit rating In (A)			630			800	1000	630			800	1000	630			800	1000
Setting Ir (A)			250	400	630	800	1000	250	400	630	800	1000	250	400	630	800	1000
Downstream CB																	
CB type Trip unit type	**CB rating or Trip unit rating (A)**	**Trip unit setting Ir (A)**	**Selectivity limit (kA)**														
iDPN, iDPN N			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC40, iC40 N, ICV40 N, iCV40 H			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60 N/H/L, iC60 RCBO			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125 N/H			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125 L			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSXm E/B/F/N/H			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX100 B/FN/H/S/L/R TM-D			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160 B/F TM-D			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160 N/H/S/L TM-D			36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
ComPact NSX250 B/F/N//H/S/L/R TM-D	**⩽ 125**		20	20	20	T	T	20	20	20	T	T	20	20	20	T	T
	160		20	20	20	T	T	20	20	20	T	T	20	20	20	T	T
	200			20	20	T	T		20	20	T	T		20	20	T	T
	250			20	20	T	T		20	20	T	T		20	20	T	T
ComPact NSX100 B/F/N/H/S/L/R MicroLogic	**40**		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160 B/F MicroLogic	**40**		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160		T	T	T	T	T	T	T	T	T	T		T	T	T	T
ComPact NSX160 N/H/S/L MicroLogic	**40**		36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
	100		36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
	160		36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
ComPact NSX250 B/F/N/H/S/L/R MicroLogic	**250**	**⩽ 100**	20	20	20	T	T	20	20	20	T	T	20	20	20	T	T
		160		20	20	T	T		20	20	T	T		20	20	T	T
		250		20	20	T	T		20	20	T	T		20	20	T	T
ComPact NSX400 F/N/H/S/L/R MicroLogic	**400**	**160**	6.3	6.3	6.3	10	15	6.3	6.3	6.3	10	15	6.3	6.3	6.3	10	15
		200		6.3	6.3	10	15		6.3	6.3	10	15		6.3	6.3	10	15
		250		6.3	6.3	10	15		6.3	6.3	10	15		6.3	6.3	10	15
		320		6.3	6.3	10	15			6.3	10	15			6.3	10	15
		400			6.3	10	15			6.3	10	15			6.3	10	15
ComPact NSX630 F/N/H/S/L/R MicroLogic	**630**	**250**		6.3	6.3	8	10		6.3	6.3	8	10		6.3	6.3	8	10
		320			6.3	8	10			6.3	8	10			6.3	8	10
		400			6.3	8	10			6.3	8	10			6.3	8	10
		500				8	10				8	10				8	10
		630					10					10					10

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ1 06-10 L1 MicroLogic X
Downstream: Com**Pact** NS630b-1000, Master**Pact** MTZ1 06-10

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Upstream CB	MasterPact MTZ1 06/08/10 L1														
Trip unit type	MicroLogic 2.0X Isd = 10 Ir					MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard					MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF				
Trip unit rating In (A)	630			800	1000	630			800	1000	630			800	1000
Setting Ir (A)	250	400	630	800	1000	250	400	630	800	1000	250	400	630	800	1000

Downstream CB CB type Trip unit type	Trip unit setting Ir (A)	Selectivity limit (kA)														
ComPact NS630b N/H/L/LB MicroLogic	**250**		6.3	6.3	8	10		6.3	6.3	8	10		6.3	6.3	8	10
	320			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
ComPact NS800 N/H/L/LB MicroLogic	**320**			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
	800															
ComPact NS1000 N/H/L MicroLogic	**400**					10					10			6.3	10	10
	500					10					10				10	10
	630					10					10					10
	800															
	1000															
MasterPact MTZ1 06 H1/H2/H3/L1 MicroLogic	**250**		6.3	6.3	8	10		6.3	6.3	8	10		6.3	6.3	8	10
	320			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
MasterPact MTZ1 08 H1/H2/H3/L1 MicroLogic	**320**			6.3	8	10			6.3	8	10			6.3	8	10
	400			6.3	8	10			6.3	8	10			6.3	8	10
	500				8	10				8	10				8	10
	630					10					10					10
	800															
MasterPact MTZ1 10 H1/H2/H3/L1 MicroLogic	**400**					10					10			6.3	10	10
	500					10					10				10	10
	630					10					10					10
	800															
	1000															

4 Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ2 08-20 N1/H1/H2/H2V/L1 MicroLogic X
Downstream: iDPN, iC40, iC60, C120, NG125, Com**Pact** NSXm, NSX100-630

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Upstream CB	MasterPact MTZ2 08/10/12/16/20 N1/H1/H2/H2V/L1																					
Trip unit type	MicroLogic 2.0X Isd = 10 Ir							MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard							MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF							
Trip unit rating In (A)	800			1000	1250	1600	2000	800			1000	1250	1600	2000	800			1000	1250	1600	2000	
Setting Ir (A)	320	630	800	1000	1250	1600	2000	320	630	800	1000	1250	1600	2000	320	630	800	1000	1250	1600	2000	

Downstream CB			Selectivity limit (kA)																					
CB type Trip unit type	CB rating or Trip unit rating (A)	Trip unit setting Ir (A)																						
iDPN, iDPN N			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC40, iC40 N, iCV40 N, iCV40 H			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60 N/H/L, iC60 RCBO			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125 N/H			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125 L			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSXm E/B/F/N/H			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX100 B/F/N/H/S/L/R TM-D			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160 B/F/N/H/S/L TM-D			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX250 B/F/N/H/S/L/R TM-D	⩽ 125		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	200		T	T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T	T
	250			T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T	T
ComPact NSX100 B/F/N/H/S/L/R MicroLogic	40		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160 B/F/N/H/S/L MicroLogic	40		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX250 B/F/N/H/S/L/R MicroLogic	250	⩽ 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
		160	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
		250		T	T	T	T	T	T	T	T	T	T	T	T	T		T	T	T	T	T	T	T
ComPact NSX400 F/N/H/S/L/R MicroLogic	400	160	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
		200	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
		250	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
		320		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T	T
		400		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T	T
ComPact NSX630 F/N/H/S/L/R MicroLogic	630	250	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
		320		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T	T
		400		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T	T
		500			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T	T
		630				T	T	T	T				T	T	T	T				T	T	T	T	T

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ2 08-20 N1/H1/H2/H2V MicroLogic X
Downstream: Com**Pact** NS630b-1600 MicroLogic A/E/P

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Upstream CB	MasterPact MTZ2 08/10/12/16/20 N1/H1/H2/H2V																	
Trip unit type	MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)	800		1000	1250	1600	2000	800		1000	1250	1600	2000	800		1000	1250	1600	2000
Setting Ir (A)	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000

Downstream CB		Selectivity limit (kA)																	
CB type / Trip unit type	Trip unit setting Ir (A)																		
ComPact NS630bN/H MicroLogic	**250**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	320	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
ComPact NS800N/H MicroLogic	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
ComPact NS1000N/H MicroLogic	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
ComPact NS1250N/H MicroLogic	**500**		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
ComPact NS1600N/H MicroLogic	**630**			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	960					16	20					24	30					T	T
	1250						20						30						T
	1600																		
ComPact NS630bL/LB MicroLogic	**250**	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	500		8	T	T	T	T		T	T	T	T	T		T	T	T	T	T
	630			T	T	T	T			T	T	T	T			T	T	T	T
ComPact NS800 L/LB MicroLogic	**320**	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	500		8	10	T	T	T		T	T	T	T	T		T	T	T	T	T
	630			10	T	T	T			T	T	T	T			T	T	T	T
	800				T	T	T				T	T	T				T	T	T
ComPact NS1000L MicroLogic	**400**	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	500		8	10	12.5	T	T		12	T	T	T	T		T	T	T	T	T
	630			10	12.5	T	T			T	T	T	T			T	T	T	T
	800				12.5	T	T				T	T	T				T	T	T
	1000					T	T					T	T					T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ2 08-20 N1/H1/H2/H2V MicroLogic X
Downstream: Master**Pact** MTZ1 06-16

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Upstream CB	MasterPact MTZ2 08/10/12/16/20 N1/H1/H2/H2V																	
Trip unit type	MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)	800		1000	1250	1600	2000	800		1000	1250	1600	2000	800		1000	1250	1600	2000
Setting Ir (A)	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000

Downstream CB		Selectivity limit (kA)																	
CB type Trip unit type	Trip unit setting Ir (A)																		
MasterPact MTZ1 06 H1/H2/H3 MicroLogic	**250**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	320	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
MasterPact MTZ1 08 H1/H2/H3 MicroLogic	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
MasterPact MTZ1 10 H1/H2/H3 MicroLogic	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
MasterPact MTZ1 12 H1/H2/H3 MicroLogic	**500**		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
MasterPact MTZ1 16 H1/H2/H3 MicroLogic	**630**			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	960					16	20					24	30					T	T
	1250						20						30						T
	1600																		
MasterPact MTZ1 06 L1 MicroLogic	**250**	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	500		8	T	T	T	T		T	T	T	T	T		T	T	T	T	T
	630			T	T	T	T			T	T	T	T			T	T	T	T
MasterPact MTZ1 08 L1 MicroLogic	**320**	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	500		8	10	T	T	T		T	T	T	T	T		T	T	T	T	T
	630			10	T	T	T			T	T	T	T			T	T	T	T
	800				T	T	T				T	T	T				T	T	T
MasterPact MTZ1 10 L1 MicroLogic	**400**	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	500		8	10	12.5	T	T		12	T	T	T	T		T	T	T	T	T
	630			10	12.5	T	T			T	T	T	T			T	T	T	T
	800				12.5	T	T				T	T	T				T	T	T
	1000					T	T					T	T					T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ2 08-20 N1/H1 MicroLogic X
Downstream: Master**Pact** MTZ2 08-20

Ue ⩽ 440 V AC

Upstream CB	MasterPact MTZ2 08/10/12/16/20 N1/H1																	
Trip unit type	MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)	800		1000	1250	1600	2000	800		1000	1250	1600	2000	800		1000	1250	1600	2000
Setting Ir (A)	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000

Downstream CB		Selectivity limit (kA)																	
CB type Trip unit type	Trip unit setting Ir (A)																		
MasterPact MTZ2 08 N1/H1/L1 MicroLogic	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
MasterPact MTZ2 10 N1/H1/L1 MicroLogic	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
MasterPact MTZ2 12 N1/H1/L1 MicroLogic	**500**		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
MasterPact MTZ2 16 N1/H1/L1 MicroLogic	**630**			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	960					16	20					24	30					T	T
	1250						20						30						T
	1600																		
MasterPact MTZ2 20 N1/H1/L1 MicroLogic	**800**				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
	1600																		
MasterPact MTZ2 08 H2/H2V MicroLogic	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
MasterPact MTZ2 10 H2/H2V MicroLogic	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
MasterPact MTZ2 12 H2/H2V MicroLogic	**500**		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
MasterPact MTZ2 16 H2/H2V MicroLogic	**630**			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	960					16	20					24	30					T	T
	1250						20						30						T
	1600																		
MasterPact MTZ2 20 H2/H2V MicroLogic	**800**				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
	1600																		

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ2 08-20 H2 MicroLogic X
Downstream: Master**Pact** MTZ2 08-20

Ue ⩽ 440 V AC

Upstream CB	MasterPact MTZ2 08/10/12/16/20 H2																	
Trip unit type	MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)	800		1000	1250	1600	2000	800		1000	1250	1600	2000	800		1000	1250	1600	2000
Setting Ir (A)	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000
Downstream CB																		
CB type / Trip unit type	Trip unit setting Ir (A)	Selectivity limit (kA)																	
MasterPact MTZ2 08 N1/H1/L1 MicroLogic	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
MasterPact MTZ2 10 N1/H1/L1 MicroLogic	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
MasterPact MTZ2 12 N1/H1/L1 MicroLogic	**500**		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
MasterPact MTZ2 16 N1/H1/L1 MicroLogic	**630**			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	960					16	20					24	30					T	T
	1250						20						30						T
	1600																		
MasterPact MTZ2 20 N1/H1/L1 MicroLogic	**800**				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
	1600																		
MasterPact MTZ2 08 H2/H2V MicroLogic	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	85	85	85	85	85	85
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	85	85	85	85	85	85
	500		8	10	12.5	16	20		12	15	18.75	24	30		85	85	85	85	85
	630			10	12.5	16	20			15	18.75	24	30			85	85	85	85
	800				12.5	16	20				18.75	24	30				85	85	85
MasterPact MTZ2 10 H2/H2V MicroLogic	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	85	85	85	85	85	85
	500		8	10	12.5	16	20		12	15	18.75	24	30		85	85	85	85	85
	630			10	12.5	16	20			15	18.75	24	30			85	85	85	85
	800				12.5	16	20				18.75	24	30				85	85	85
	1000					16	20					24	30					85	85
MasterPact MTZ2 12 H2/H2V MicroLogic	**500**		8	10	12.5	16	20		12	15	18.75	24	30		85	85	85	85	85
	630			10	12.5	16	20			15	18.75	24	30			85	85	85	85
	800				12.5	16	20				18.75	24	30				85	85	85
	1000					16	20					24	30					85	85
	1250						20						30						85
MasterPact MTZ2 16 H2/H2V MicroLogic	**630**			10	12.5	16	20			15	18.75	24	30			85	85	85	85
	800				12.5	16	20				18.75	24	30				85	85	85
	960					16	20					24	30					85	85
	1250						20						30						85
	1600																		
MasterPact MTZ2 20 H2/H2V MicroLogic	**800**				12.5	16	20				18.75	24	30				85	85	85
	1000					16	20					24	30					85	85
	1250						20						30						85
	1600																		

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ2 08-20 H2V MicroLogic X
Downstream: Master**Pact** MTZ2 08-20

Ue ⩽ 440 V AC

Upstream CB	MasterPact MTZ2 08/10/12/16/20 H2V																	
Trip unit type	MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)	800		1000	1250	1600	2000	800		1000	1250	1600	2000	800		1000	1250	1600	2000
Setting Ir (A)	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000

Downstream CB		Selectivity limit (kA)																	
CB type / Trip unit type	Trip unit setting Ir (A)																		
MasterPact MTZ2 08 N1/H1/L1 MicroLogic	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
MasterPact MTZ2 10 N1/H1/L1 MicroLogic	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
MasterPact MTZ2 12 N1/H1/L1 MicroLogic	**500**		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
MasterPact MTZ2 16 N1/H1/L1 MicroLogic	**630**			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	960					16	20					24	30					T	T
	1250						20						30						T
	1600																		
MasterPact MTZ2 20 N1/H1/L1 MicroLogic	**800**				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
	1600																		
MasterPact MTZ2 08 H2/H2V MicroLogic	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
MasterPact MTZ2 10 H2/H2V MicroLogic	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	T	T	T	T	T	T
	500		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
MasterPact MTZ2 12 H2/H2V MicroLogic	**500**		8	10	12.5	16	20		12	15	18.75	24	30		T	T	T	T	T
	630			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
MasterPact MTZ2 16 H2/H2V MicroLogic	**630**			10	12.5	16	20			15	18.75	24	30			T	T	T	T
	800				12.5	16	20				18.75	24	30				T	T	T
	960					16	20					24	30					T	T
	1250						20						30						T
	1600																		
MasterPact MTZ2 20 H2/H2V MicroLogic	**800**				12.5	16	20				18.75	24	30				T	T	T
	1000					16	20					24	30					T	T
	1250						20						30						T
	1600																		

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ2 08-20 L1 MicroLogic X
Downstream: Master**Pact** MTZ1 06 - 16 MicroLogic X

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Upstream CB	MasterPact MTZ2 08/10/12/16/20 L1																	
Trip unit type	MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)	800		1000	1250	1600	2000	800		1000	1250	1600	2000	800		1000	1250	1600	2000
Setting Ir (A)	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000

Downstream CB		Selectivity limit (kA)																	
CB type Trip unit type	Trip unit setting Ir (A)																		
MasterPact MTZ1 06 H1/H2/H3 MicroLogic	**250**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	320	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	500		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
MasterPact MTZ1 08 H1/H2/H3 MicroLogic	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	500		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
MasterPact MTZ1 10 H1/H2/H3 MicroLogic	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	500		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
	1000					16	20					24	30					37	37
MasterPact MTZ1 12 H1/H2/H3 MicroLogic	**500**		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
	1000					16	20					24	30					37	37
	1250						20						30						37
MasterPact MTZ1 16 H1/H2/H3 MicroLogic	**630**			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
	960					16	20					24	30					37	37
	1250						20						30						37
	1600																		
MasterPact MTZ1 06 L1 MicroLogic	**250**	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	500		8	10	T	T	T		T	T	T	T	T		T	T	T	T	T
	630			10	T	T	T			T	T	T	T			T	T	T	T
MasterPact MTZ1 08 L1 MicroLogic	**320**	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	500		8	10	12.5	T	T		12	T	T	T	T		T	T	T	T	T
	630			10	12.5	T	T			T	T	T	T			T	T	T	T
	800				12.5	T	T				T	T	T				T	T	T
MasterPact MTZ1 10 L1 MicroLogic	**400**	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	500		8	10	12.5	T	T		12	T	T	T	T		T	T	T	T	T
	630			10	12.5	T	T			T	T	T	T			T	T	T	T
	800				12.5	T	T				T	T	T				T	T	T
	1000					T	T					T	T					T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ2 08-20 L1 MicroLogic X
Downstream: Com**Pact** NS630b-1600 MicroLogic A/E/P

Ue ⩽ 440 V AC

Upstream CB	MasterPact MTZ2 08/10/12/16/20 L1																	
Trip unit type	MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)	800		1000	1250	1600	2000	800		1000	1250	1600	2000	800		1000	1250	1600	2000
Setting Ir (A)	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000	630	800	1000	1250	1600	2000
Downstream CB																		
CB type / Trip unit type	**Trip unit setting Ir (A)**	**Selectivity limit (kA)**																	
ComPact NS630bN/H MicroLogic	**250**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	320	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	500		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
ComPact NS800N/H MicroLogic	**320**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	400	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	500		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
ComPact NS1000N/H MicroLogic	**400**	6.3	8	10	12.5	16	20	12	12	15	18.75	24	30	37	37	37	37	37	37
	500		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
	1000					16	20					24	30					37	37
ComPact NS1250N/H MicroLogic	**500**		8	10	12.5	16	20		12	15	18.75	24	30		37	37	37	37	37
	630			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
	1000					16	20					24	30					37	37
	1250						20						30						37
ComPact NS1600N/H MicroLogic	**630**			10	12.5	16	20			15	18.75	24	30			37	37	37	37
	800				12.5	16	20				18.75	24	30				37	37	37
	960					16	20					24	30					37	37
	1250						20						30						37
	1600																		
ComPact NS630bL/LB MicroLogic	**250**	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	320	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	500		8	10	T	T	T		T	T	T	T	T		T	T	T	T	T
	630			10	T	T	T			T	T	T	T			T	T	T	T
ComPact NS800L/LB MicroLogic	**320**	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	400	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	500		8	10	12.5	T	T		12	T	T	T	T		T	T	T	T	T
	630			10	12.5	T	T			T	T	T	T			T	T	T	T
	800				12.5	T	T				T	T	T				T	T	T
ComPact NS1000L MicroLogic	**400**	6.3	8	10	12.5	T	T	12	12	T	T	T	T	T	T	T	T	T	T
	500		8	10	12.5	T	T		12	T	T	T	T		T	T	T	T	T
	630			10	12.5	T	T			T	T	T	T			T	T	T	T
	800				12.5	T	T				T	T	T				T	T	T
	1000					T	T					T	T					T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ2 25-40 H1/H2/H2V, MTZ3 40-63 H1/H2 MicroLogic X
Downstream: iDPN, iC40, iCV40, iC60, C120, NG125, Com**Pact** NSXm, NSX100-630, NS630b-3200

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Upstream CB		MasterPact MTZ2 25/32/40 H1/H2/H2V			MasterPact MTZ3 40/50/63 H1/H2			MasterPact MTZ2 25/32/40 H1/H2/H2V			MasterPact MTZ3 40/50/63 H1/H2			MasterPact MTZ2 25/32/40 H1/H2/H2V			MasterPact MTZ3 40/50/63 H1/H2		
Trip unit type		MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)		2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300
Setting Ir (A)		2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300
Downstream CB																			
CB type	**CB rating (A)**	**Selectivity limit (kA)**																	
iDPN, iDPN N		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC40, iC40 N, iCV40 N, iCV40 H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60 N/H/L, iC60 RCBO		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125 N/H/L		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSXm E/B/F/N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX B/F/H/N/S/L/R TM-D	**NSX100**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160 B/F/H/N/S/L TM-D		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX B/F/H/N/S/L/R MicroLogic	**NSX100**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NSX400	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NSX630	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160 B/F/H/N/S/L MicroLogic		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NS N MicroLogic	**NS630b**	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	NS800	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	NS1000	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	NS1250	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	NS1600	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
ComPact NS H MicroLogic	**NS630b**	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	NS800	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	NS1000	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	NS1250	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	NS1600	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
ComPact NS N MicroLogic	**NS1600b**	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	NS2000	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	NS2500	25 [1]	32	40	40	50	63	37.5 [1]	48	60	60	T	T	T [1]	T	T	T	T	T
	NS3200		32 [1]	40	40	50	63		48 [1]	60	60	T	T		T [1]	T	T	T	T
ComPact NS H MicroLogic	**NS1600b**	25	32	40	40	50	63	37.5	48	60	60	75	T	T	T	T	T	T	T
	NS2000	25	32	40	40	50	63	37.5	48	60	60	75	T	T	T	T	T	T	T
	NS2500	25 [1]	32	40	40	50	63	37.5 [1]	48	60	60	75	T	T [1]	T	T	T	T	T
	NS3200		32 [1]	40	40	50	63		48 [1]	60	60	75	T		T [1]	T	T	T	T
ComPact NS L MicroLogic	**NS630b**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NS800	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NS1000	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NS LB MicroLogic	**NS630b**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NS800	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

[1] With Ir upstream > 1.3 Ir downstream.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ2 25-40 H1 MicroLogic X
Downstream: Master**Pact** MTZ1 06-16, MTZ2 08-20

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Upstream CB	MasterPact MTZ2 25/32/40 H1								
Trip unit type	MicroLogic 2.0X Isd = 10 Ir			MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard			MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF		
Trip unit rating In (A)	2500	3200	4000	2500	3200	4000	2500	3200	4000
Setting Ir (A)	2500	3200	4000	2500	3200	4000	2500	3200	4000

Downstream CB		Selectivity limit (kA)								
CB type	CB rating (A)									
MasterPact MTZ1 H1 MicroLogic	**MTZ1 06**	25	32	40	37.5	T	T	T	T	T
	MTZ1 08	25	32	40	37.5	T	T	T	T	T
	MTZ1 10	25	32	40	37.5	T	T	T	T	T
	MTZ1 12	25	32	40	37.5	T	T	T	T	T
	MTZ1 16	25	32	40	37.5	T	T	T	T	T
MasterPact MTZ1 H2 MicroLogic	**MTZ1 06**	25	32	40	37.5	48	T	T	T	T
	MTZ1 08	25	32	40	37.5	48	T	T	T	T
	MTZ1 10	25	32	40	37.5	48	T	T	T	T
	MTZ1 12	25	32	40	37.5	48	T	T	T	T
	MTZ1 16	25	32	40	37.5	48	T	T	T	T
MasterPact MTZ1 H3 MicroLogic	**MTZ1 06**	25	32	40	37.5	48	60	T	T	T
	MTZ1 08	25	32	40	37.5	48	60	T	T	T
	MTZ1 10	25	32	40	37.5	48	60	T	T	T
	MTZ1 12	25	32	40	37.5	48	60	T	T	T
	MTZ1 16	25	32	40	37.5	48	60	T	T	T
MasterPact MTZ2 N1 MicroLogic	**MTZ2 08**	25	32	40	37.5	T	T	T	T	T
	MTZ2 10	25	32	40	37.5	T	T	T	T	T
	MTZ2 12	25	32	40	37.5	T	T	T	T	T
	MTZ2 16	25	32	40	37.5	T	T	T	T	T
MasterPact MTZ2 H1 MicroLogic	**MTZ2 08**	25	32	40	37.5	48	60	T	T	T
	MTZ2 10	25	32	40	37.5	48	60	T	T	T
	MTZ2 12	25	32	40	37.5	48	60	T	T	T
	MTZ2 16	25	32	40	37.5	48	60	T	T	T
	MTZ2 20	25	32	40	37.5	48	60	T	T	T
	MTZ2 25	25 [1]	32	40	37.5 [1]	48	60	T [1]	T	T
	MTZ2 32		32 [1]	40		48 [1]	60		T [1]	T
MasterPact MTZ2 H2/H2V MicroLogic	**MTZ2 08**	25	32	40	37.5	48	60	T	T	T
	MTZ2 10	25	32	40	37.5	48	60	T	T	T
	MTZ2 12	25	32	40	37.5	48	60	T	T	T
	MTZ2 16	25	32	40	37.5	48	60	T	T	T
	MTZ2 20	25	32	40	37.5	48	60	T	T	T
	MTZ2 25	25 [1]	32	40	37.5 [1]	48	60	T [1]	T	T
	MTZ2 32		32 [1]	40		48 [1]	60		T [1]	T
MasterPact MTZ2 H3 MicroLogic	**MTZ2 20**	25	32	40	37.5	48	60	T	T	T
	MTZ2 25	25 [1]	32	40	37.5 [1]	48	60	T [1]	T	T
	MTZ2 32		32 [1]	40		48 [1]	60		T [1]	T
MasterPact MTZ1 L1 MicroLogic	**MTZ1 06**	T	T	T	T	T	T	T	T	T
	MTZ1 08	T	T	T	T	T	T	T	T	T
	MTZ1 10	T	T	T	T	T	T	T	T	T
MasterPact MTZ2 L1 MicroLogic	**MTZ2 08**	25	32	40	37.5	48	60	T	T	T
	MTZ2 10	25	32	40	37.5	48	60	T	T	T
	MTZ2 12	25	32	40	37.5	48	60	T	T	T
	MTZ2 16	25	32	40	37.5	48	60	T	T	T
	MTZ2 20	25	32	40	37.5	48	60	T	T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

[1] With Ir upstream > 1.3 Ir downstream.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ2 20/25/32/40 H2, MTZ3 40/50/63 H1 MicroLogic X
Downstream: Master**Pact** MTZ1 06-16, MTZ2 08-40, MTZ3 40/50

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Upstream CB		MasterPact MTZ2 20/25/32/40 H2			MasterPact MTZ3 40/50/63 H1			MasterPact MTZ2 20/25/32/40 H2			MasterPact MTZ3 40/50/63 H1			MasterPact MTZ2 20/25/32/40 H2			MasterPact MTZ3 40/50/63 H1		
Trip unit type		MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)		2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300
Setting Ir (A)		2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300
Downstream CB		**Selectivity limit (kA)**																	
CB type	**CB rating (A)**																		
MasterPact MTZ1 H1 MicroLogic	**MTZ1 06**	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 08	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 10	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 12	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 16	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
MasterPact MTZ1 H2 MicroLogic	**MTZ1 06**	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	MTZ1 08	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	MTZ1 10	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	MTZ1 12	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	MTZ1 16	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
MasterPact MTZ1 H3 MicroLogic	**MTZ1 06**	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ1 08	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ1 10	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ1 12	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ1 16	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
MasterPact MTZ2 N1 MicroLogic	**MTZ2 08**	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ2 10	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ2 12	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ2 16	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
MasterPact MTZ2 H1 MicroLogic	**MTZ2 08**	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ2 10	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ2 12	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ2 16	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ2 20	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ2 25	25 [1]	32	40	40	50	63	37.5 [1]	48	60	60	T	T	T [1]	T	T	T	T	T
	MTZ2 32		32 [1]	40	40	50	63		48 [1]	60	60	T	T		T [1]	T	T	T	T
	MTZ2 40			40 [1]	40 [1]	50	63			60 [1]	60	T	T			T [1]	T [1]	T	T
MasterPact MTZ2 H2/H2V MicroLogic	**MTZ2 08**	25	32	40	40	50	63	37.5	48	60	60	75	94	85	85	85	T	T	T
	MTZ2 10	25	32	40	40	50	63	37.5	48	60	60	75	94	85	85	85	T	T	T
	MTZ2 12	25	32	40	40	50	63	37.5	48	60	60	75	94	85	85	85	T	T	T
	MTZ2 16	25	32	40	40	50	63	37.5	48	60	60	75	94	85	85	85	T	T	T
	MTZ2 20	25	32	40	40	50	63	37.5	48	60	60	75	94	85	85	85	T	T	T
	MTZ2 25	25 [1]	32	40	40	50	63	37.5 [1]	48	60	60	75	94	85 [1]	85	85	T	T	T
	MTZ2 32		32 [1]	40	40	50	63		48 [1]	60	60	75	94		85 [1]	85	T	T	T
	MTZ2 40			40 [1]	40 [1]	50	63			60 [1]	60	75	94			85 [1]	T [1]	T	T
MasterPact MTZ3 H1	**MTZ3 40**			40 [1]	40 [1]	50	63			60 [1]	60 [1]	75	94			T [1]	T [1]	T	T
	MTZ3 50					50 [1]	63					75 [1]	94					T [1]	T
MasterPact MTZ2 H3 MicroLogic	**MTZ2 20**	25	32	40	40	50	63	37.5	48	60	60	75	94	85	85	85	T	T	T
	MTZ2 25	25 [1]	32	40	40	50	63	37.5 [1]	48	60	60	75	94	85 [1]	85	85	T	T	T
	MTZ2 32		32 [1]	40	40	50	63		48 [1]	60	60	75	94		85 [1]	85	T	T	T
	MTZ2 40			40 [1]	40 [1]	50	63			60 [1]		75	94			85 [1]	T [1]	T	T
MasterPact MTZ3 H2	**MTZ3 40**				40 [1]	50	63			60 [1]	60 [1]	75	94			T [1]	T [1]	T	T
	MTZ3 50					50 [1]	63					75 [1]	94					T [1]	T
MasterPact MTZ1 L1 MicroLogic	**MTZ1 06**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 08	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
MasterPact MTZ2 L1 MicroLogic	**MTZ2 08**	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 10	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 12	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 16	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 20	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

[1] With Ir upstream > 1.3 Ir downstream.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ2 25/32/40 H2V, MTZ3 40b/50/63 H1 MicroLogic X
Downstream: Master**Pact** MTZ1 06-16, MTZ2 08-40, MTZ3 40b/50

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Upstream CB	MasterPact MTZ2 25/32/40 H2V			MasterPact MTZ3 40b/50/63 H1			MasterPact MTZ2 25/32/40 H2V			MasterPact MTZ3 40b/50/63 H1			MasterPact MTZ2 25/32/40 H2V			MasterPact MTZ3 40b/50/63 H1		
Trip unit type	MicroLogic 2.0X Isd = 10 Ir						MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard						MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF					
Trip unit rating In (A)	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300
Setting Ir (A)	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300

Downstream CB		Selectivity limit (kA)																	
CB type	CB rating (A)																		
MasterPact MTZ1 H1 MicroLogic	**MTZ1 06**	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 08	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 10	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 12	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	Tw
	MTZ1 16	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
MasterPact MTZ1 H2 MicroLogic	**MTZ1 06**	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	MTZ1 08	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	MTZ1 10	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	MTZ1 12	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
	MTZ1 16	25	32	40	40	T	T	37.5	48	T	T	T	T	T	T	T	T	T	T
MasterPact MTZ1 H3 MicroLogic	**MTZ1 06**	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ1 08	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ1 10	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ1 12	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ1 16	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
MasterPact MTZ2 N1 MicroLogic	**MTZ2 08**	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ2 10	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ2 12	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
	MTZ2 16	25	32	40	40	T	T	37.5	T	T	T	T	T	T	T	T	T	T	T
MasterPact MTZ2 H1 MicroLogic	**MTZ2 08**	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ2 10	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ2 12	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ2 16	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ2 20	25	32	40	40	50	63	37.5	48	60	60	T	T	T	T	T	T	T	T
	MTZ2 25	25 [1]	32	40	40	50	63	37.5 [1]	48	60	60	T	T	T [1]	T	T	T	T	T
	MTZ2 32		32 [1]	40	40	50	63		48 [1]	60	60	T	T		T [1]	T	T	T	T
	MTZ2 40			40 [1]	40 [1]	50	63			60 [1]	60 [1]	T	T			T [1]	T [1]	T	T
MasterPact MTZ2 H2/H2V MicroLogic	**MTZ2 08**	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 10	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 12	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 16	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 20	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 25	25 [1]	32	40	40	50	63	37.5 [1]	48	60	60	75	94	T [1]	T	T	T	T	T
	MTZ2 32		32 [1]	40	40	50	63		48 [1]	60	60	75	94		T [1]	T	T	T	T
	MTZ2 40			40 [1]	40 [1]	50	63			60 [1]	60 [1]	75	94			T [1]	T [1]	T	T
MasterPact MTZ3 H1	**MTZ3 40**			40 [1]	40 [1]	50	63			60 [1]	60 [1]	75	94			T [1]	T [1]	T	T
	MTZ3 50					50 [1]	63					75 [1]	94					T [1]	T
MasterPact MTZ2 H3 MicroLogic	**MTZ2 20**	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 25	25 [1]	32	40	40	50	63	37.5 [1]	48	60	60	75	94	T [1]	T	T	T	T	T
	MTZ2 32		32 [1]	40	40	50	63		48 [1]	60	60	75	94		T [1]	T	T	T	T
	MTZ2 40			40 [1]	40 [1]	50	63			60 [1]	60 [1]	75	94			T [1]	T [1]	T	T
MasterPact MTZ3 H2	**MTZ3 40**				40 [1]	50	63			60 [1]	60 [1]	75	94			T [1]	T [1]	T	T
	MTZ3 50					50 [1]	63					75 [1]	94					T [1]	T
MasterPact MTZ1 L1 MicroLogic	**MTZ1 06**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 08	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
MasterPact MTZ2 L1 MicroLogic	**MTZ2 08**	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 10	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 12	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 16	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T
	MTZ2 20	25	32	40	40	50	63	37.5	48	60	60	75	94	T	T	T	T	T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

[1] With Ir upstream > 1.3 Ir downstream.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ2 20/25/32/40 H3, MTZ3 40/50/63 H2 MicroLogic X
Downstream: iDPN, iC60, iC40, C120, NG125, Com**Pact** NSXm, NSX100-630, NS630b-3200

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Upstream CB		MasterPact MTZ2 20/25/32/40 H3				MasterPact MTZ3 40/50/63 H2			MasterPact MTZ2 20/25/32/40 H3				MasterPact MTZ3 40/50/63 H2			MasterPact MTZ2 20/25/32/40 H3				MasterPact MTZ3 40/50/63 H2		
Trip unit type		MicroLogic 2.0X Isd = 10 Ir							MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard							MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF						
Trip unit rating In (A)		2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300
Setting Ir (A)		2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300
Downstream CB		**Selectivity limit (kA)**																				
CB type	**CB rating (A)**																					
iDPN, iDPN N		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC40, iC40 N, iCV40 N, iCV40 H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60 N/H/L, iC60 RCBO		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125 N/H/L		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSXm E/B/F/N/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact B/F/H/N/S/L/R TM-D	**NSX100**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160 B/F/H/N/S/L TM-D		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact B/F/H/N/S/L/R MicroLogic	**NSX100**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NSX250	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160 B/F/H/N/S/L MicroLogic		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact F/H/N/S/L/R	**NSX400**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NSX630	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact N MicroLogic	**NS630b**	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	NS800	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	NS1000	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	NS1250	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	NS1600	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
ComPact H MicroLogic	**NS630b**	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	65	65	65	65	T	T	T
	NS800	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	65	65	65	65	T	T	T
	NS1000	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	65	65	65	65	T	T	T
	NS1250	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	65	65	65	65	T	T	T
	NS1600	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	65	65	65	65	T	T	T
ComPact N MicroLogic	**NS1600b**	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	65	65	65	65	T	T	T
	NS2000	20 [1]	25	32	40	40	50	63	30 [1]	37.5	48	60	60	T	T	65 [1]	65	65	65	T	T	T
	NS2500		25 [1]	32	40	40	50	63		37.5 [1]	48	60	60	T	T		65 [1]	65	65	T	T	T
	NS3200			32 [1]	40	40	50	63			48 [1]	60	60	T	T			65 [1]	65	T	T	T
ComPact H MicroLogic	**NS1600b**	20	25	32	40	40	50	63	30	37.5	48	60	60	75	T	65	65	65	65	T	T	T
	NS2000	20 [1]	25	32	40	40	50	63	30 [1]	37.5	48	60	60	75	T	65 [1]	65	65	65	T	T	T
	NS2500		25 [1]	32	40	40	50	63		37.5 [1]	48	60	60	75	T		65 [1]	65	65	T	T	T
	NS3200			32 [1]	40	40	50	63			48 [1]	60	60	75	T			65 [1]	65	T	T	T
ComPact L MicroLogic	**NS630b**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NS800	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NS1000	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
ComPact LB MicroLogic	**NS630b**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	NS800	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

[1] With Ir upstream > 1.3 Ir downstream.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity table

Upstream: Master**Pact** MTZ2 20/25/32/40 H3, MTZ3 40/50/63 H2 MicroLogic X
Downstream: Master**Pact** MTZ1 06-16, MTZ2 08-40 and MTZ3 40/50

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Upstream CB	MasterPact MTZ2 20/25/32/40 H3				MasterPact MTZ3 40/50/63 H2			MasterPact MTZ2 20/25/32/40 H3				MasterPact MTZ3 40/50/63 H2			MasterPact MTZ2 20/25/32/40 H3				MasterPact MTZ3 40/50/63 H2		
Trip unit type	MicroLogic 2.0X Isd = 10 Ir							MicroLogic 5.0X - 6.0X - 7.0X Inst : 15 In Standard							MicroLogic 5.0X - 6.0X - 7.0X Inst : OFF						
Trip unit rating In (A)	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300
Setting Ir (A)	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300

Downstream CB		Selectivity limit (kA)																				
CB type	CB rating (A)																					
MasterPact MTZ1 H1 MicroLogic	**MTZ1 06**	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 08	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 10	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 12	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 16	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
MasterPact MTZ1 H2 MicroLogic	**MTZ1 06**	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 08	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 10	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 12	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 16	20	25	32	40	40	T	T	30	37.5	48	T	T	T	T	T	T	T	T	T	T	T
MasterPact MTZ1 H3 MicroLogic	**MTZ1 06**	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ1 08	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ1 10	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ1 12	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ1 16	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
MasterPact MTZ2 N1 MicroLogic	**MTZ2 08**	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ2 10	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ2 12	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ2 16	20	25	32	40	40	T	T	30	37.5	T	T	T	T	T	T	T	T	T	T	T	T
MasterPact MTZ2 H1 MicroLogic	**MTZ2 08**	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ2 10	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ2 12	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ2 16	20	25	32	40	40	50	63	30	37.5	48	60	60	T	T	T	T	T	T	T	T	T
	MTZ2 20	20 [1]	25	32	40	40	50	63	30 [1]	37.5	48	60	60	T	T	T [1]	T	T	T	T	T	T
	MTZ2 25		25 [1]	32	40	40	50	63		37.5 [1]	48	60	60	T	T		T [1]	T	T	T	T	T
	MTZ2 32			32 [1]	40	40	50	63			48 [1]	60	60	T	T			T [1]	T	T	T	T
	MTZ2 40				40 [1]	40 [1]	50	63				60 [1]	60	T	T				T [1]	T [1]	T	T
MasterPact MTZ2 H2/H2V MicroLogic	**MTZ2 08**	20	25	32	40	40	50	63	30	37.5	48	60	60	75	94	65	65	65	65	T	T	T
	MTZ2 10	20	25	32	40	40	50	63	30	37.5	48	60	60	75	94	65	65	65	65	T	T	T
	MTZ2 12	20	25	32	40	40	50	63	30	37.5	48	60	60	75	94	65	65	65	65	T	T	T
	MTZ2 16	20	25	32	40	40	50	63	30	37.5	48	60	60	75	94	65	65	65	65	T	T	T
	MTZ2 20	20 [1]	25	32	40	40	50	63	30 [1]	37.5	48	60	60	75	94	65 [1]	65	65	65	T	T	T
	MTZ2 25		25 [1]	32	40	40	50	63		37.5 [1]	48	60	60	75	94		65 [1]	65	65	T	T	T
	MTZ2 32			32 [1]	40	40	50	63			48 [1]	60	60	75	94			65 [1]	65	T	T	T
	MTZ2 40				40 [1]	40 [1]	50	63				60 [1]	60	75	94				65 [1]	T [1]	T	T
MasterPact MTZ3 H1	**MTZ3 40**				40 [1]	40 [1]	50	63				60 [1]	75	94	94				65 [1]	T [1]	T	T
	MTZ3 50						50 [1]	63					75 [1]	94	94						T [1]	T
MasterPact MTZ2 H3 MicroLogic	**MTZ2 20**	20 [1]	25	32	40	40	50	63	30 [1]	37.5	48	60	60	75	94	65 [1]	65	65	65	120	120	120
	MTZ2 25		25 [1]	32	40	40	50	63		37.5 [1]	48	60	60	75	94		65 [1]	65	65	120	120	120
	MTZ2 32			32 [1]	40	40	50	63			48 [1]	60	60	75	94			65 [1]	65	120	120	120
	MTZ2 40				40 [1]	40 [1]	50	63				60 [1]	60	75	94				65 [1]	120 [1]	120	120
MasterPact MTZ3 H2	**MTZ3 40**				40 [1]	40 [1]	50	63				60 [1]	75	75	94				65 [1]	120 [1]	120	120
	MTZ3 50						50 [1]	63					75 [1]		94						120 [1]	120
MasterPact MTZ1 L1 MicroLogic	**MTZ1 06**	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 08	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	MTZ1 10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
MasterPact MTZ2 L1 MicroLogic	**MTZ2 08**	20	25	32	40	40	50	63	30	37.5	48	60	60	75	94	100	100	100	100	T	T	T
	MTZ2 10	20	25	32	40	40	50	63	30	37.5	48	60	60	75	94	100	100	100	100	T	T	T
	MTZ2 12	20	25	32	40	40	50	63	30	37.5	48	60	60	75	94	100	100	100	100	T	T	T
	MTZ2 16	20	25	32	40	40	50	63	30	37.5	48	60	60	75	94	100	100	100	100	T	T	T
	MTZ2 20	20	25	32	40	40	50	63		37.5	48	60	60	75	94		100	100	100	T	T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

[1] With Ir upstream > 1.3 Ir downstream.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity tables for direct current application

How to use the tables:

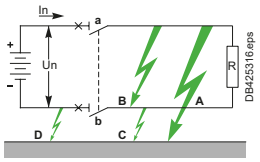
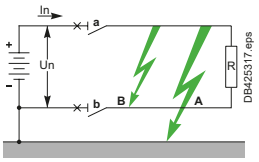
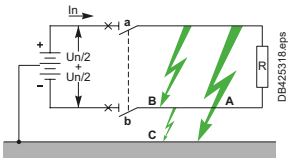
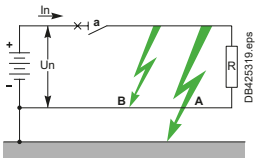
In the following pages are provided selectivity tables for the following system:

- 24-48 60 Vdc
- 110-125 Vdc
- 220-250 Vdc

With time constant from 1.5 to 25 ms

Suitability of circuit breakers according to voltage and earthing system shall be checked before using these tables. Selection of devices in DC can be challenging due to the diversity of voltage levels and earthing system. See product catalog or guides for DC application.

In this document we will consider the following cases:

IT	TN		
Isolated from earth + and - conductors protected and disconnected	- (or +) earthed '+ and - conductors protected and disconnected	Midpoint earthed (not distributed) + and – conductors protected and disconnected	- (or +) earthed '+ (or -) conductors protected and disconnected
			
Case 1	Case 2	Case 3	Case 4

For one given voltage the selectivity table is applicable for Case 1, Case 2, Case 3, Case 4 with this voltage between + and – for all types of fault. (In IT, Case 1, circuit breaker will not trip during first fault to earth)
For one given voltage selectivity limits in the table can also apply to system with higher voltage (up to 2 times) for all type of fault in Case 3 and for + to – fault only (Fault "B") in Case 1 if the same circuit breakers with same number of poles can be used at this higher voltage.

Selectivity table

Upstream: iC60 curve B
Downstream: iC60 curves B, C, D, C60H-DC curve C

A

Ue: 24-48-60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			iC60N/H/L, 1P or 2P [1]										
			Curve B										
In (A)			3	4	6	10	16	20	25	32	40	50	63
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
iC60N/H/L 1P or 2P [1]	**B**	⩽ 1		T	T	T	T	T	T	T	T	T	T
		2				T	T	T	T	T	T	T	T
		3				150	1200	T	T	T	T	T	T
		4						500	900	T	T	T	T
		6							300	700	1000	1800	4000
		10								400	500	800	1000
		⩾ 16											
	C	⩽ 1		T	T	T	T	T	T	T	T	T	T
		2				T	T	T	T	T	T	T	T
		3				150	1200	T	T	T	T	T	T
		4						400	900	T	T	T	T
		6							300	700	1000	1800	3000
		10								300	500	700	800
		⩾ 16											
	D	⩽ 1			T	T	T	T	T	T	T	T	T
		2				1600	T	T	T	T	T	T	T
		3					900	11000	T	T	T	T	T
		4							700	T	T	T	T
		6								500	800	1800	3000
		10									400	600	800
		⩾ 16											
C60H-DC 1P or 2P [1]	**C**	⩽ 1		T	T	T	T	T	T	T	T	T	T
		2				T	T	T	T	T	T	T	T
		3				150	1200	T	T	T	T	T	T
		4						400	900	T	T	T	T
		6							300	700	1000	1800	3000
		10								300	500	700	800
		⩾ 16											

T : Total selectivity, up to the breaking capacity of the downstream circuit breaker.

700 : Selectivity limit = 700 A

: No selectivity.

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).

[2] According to the voltage and number of pole used, the breaking capacity can changed. Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and - Selectivity limits in this table for Case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: iC60 curve C
Downstream: iC60 curves B, C, D, C60H-DC curve C

Ue: 24-48-60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			iC60N/H/L, 1P or 2P [1]										
			Curve C										
In (A)			3	4	6	10	16	20	25	32	40	50	63
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
iC60N/H/L 1P or 2P [1]	**B**	⩽ 1	T	T	T	T	T	T	T	T	T	T	T
		2			700	T	T	T	T	T	T	T	T
		3				900	T	T	T	T	T	T	T
		4					900	8000	T	T	T	T	T
		6							900	1800	3200	T	T
		10								700	800	1500	2000
		16										1000	1200
		⩾ 20											
	C	⩽ 1	T	T	T	T	T	T	T	T	T	T	T
		2			500	T	T	T	T	T	T	T	T
		3				900	T	T	T	T	T	T	T
		4					900	6700	T	T	T	T	T
		6							700	1400	3200	T	T
		10								700	800	1500	2000
		16										1000	1200
		⩾ 20											
	D	⩽ 1	T	T	T	T	T	T	T	T	T	T	T
		2			350	T	T	T	T	T	T	T	T
		3				700	T	T	T	T	T	T	T
		4					700	4000	T	T	T	T	T
		6							700	1400	3200	T	T
		10								500	800	1500	1800
		16										1000	1200
		⩾ 20											
C60H-DC 1P or 2P [1]	**C**	⩽ 1	T	T	T	T	T	T	T	T	T	T	T
		2			500	T	T	T	T	T	T	T	T
		3				900	T	T	T	T	T	T	T
		4					900	6700	T	T	T	T	T
		6							700	1400	3200	T	T
		10								700	800	1500	2000
		16										1000	1200
		⩾ 20											

T : Total selectivity, up to the breaking capacity of the downstream circuit breaker.

700 : Selectivity limit = 700 A

: No selectivity.

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).

[2] According to the voltage and number of pole used, the breaking capacity can changed. Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and - Selectivity limits in this table for Case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: iC60 curve D
Downstream: iC60 curves B, C, D, C60H-DC curve C

Ue: 24-48-60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			iC60N/H/L, 1P or 2P [1]										
			Curve D										
In (A)			3	4	6	10	16	20	25	32	40	50	63
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
iC60N/H/L 1P or 2P [1]	**B**	⩽ 1	T	T	T	T	T	T	T	T	T	T	T
		2		1500	T	T	T	T	T	T	T	T	T
		3			400	T	T	T	T	T	T	T	T
		4				700	T	T	T	T	T	T	T
		6					700	1000	2500	T	T	T	T
		10							700	1400	1600	3600	9000
		16								900	1000	1900	2700
		⩾ 20											
	C	⩽ 1	T	T	T	T	T	T	T	T	T	T	T
		2		1000	T	T	T	T	T	T	T	T	T
		3			350	T	T	T	T	T	T	T	T
		4				700	T	T	T	T	T	T	T
		6					700	1000	2000	T	T	T	T
		10							700	1400	1600	3600	9000
		16								900	1000	1500	2100
		⩾ 20											
	D	⩽ 1	T	T	T	T	T	T	T	T	T	T	T
		2		700	T	T	T	T	T	T	T	T	T
		3			350	T	T	T	T	T	T	T	T
		4				700	T	T	T	T	T	T	T
		6					700	1000	2000	T	T	T	T
		10							700	1400	1600	3600	7400
		16								900	1000	1500	2100
		⩾ 20											
C60H-DC 1P or 2P [1]	**C**	⩽ 1	T	T	T	T	T	T	T	T	T	T	T
		2		1000	T	T	T	T	T	T	T	T	T
		3			350	T	T	T	T	T	T	T	T
		4				700	T	T	T	T	T	T	T
		6					700	1000	2000	T	T	T	T
		10							700	1400	1600	3600	9000
		16								900	1000	1500	2100
		⩾ 20											

T : Total selectivity, up to the breaking capacity of the downstream circuit breaker.

700 : Selectivity limit = 700 A

: No selectivity.

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).

[2] According to the voltage and number of pole used, the breaking capacity can changed. Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and - Selectivity limits in this table for Case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: C60H-DC curve C
Downstream: iC60 curves B, C, D, C60H-DC curve C

Ue: 24-48-60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			C60H-DC, 1P or 2P [1]										
			Curve C										
In (A)			3	4	6	10	16	20	25	32	40	50	63
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
iC60N/H/L 1P or 2P [1]	**B**	⩽ 1		T	T	T	T	T	T	T	T	T	T
		2			150	T	T	T	T	T	T	T	T
		3				300	1200	T	T	T	T	T	T
		4					500	800	1500	T	T	T	T
		6						370	450	900	1600	3600	7300
		10								400	800	1200	1800
		⩾ 16											
	C	⩽ 1		T	T	T	T	T	T	T	T	T	T
		2			150	T	T	T	T	T	T	T	T
		3				300	1200	T	T	T	T	T	T
		4					400	600	1500	T	T	T	T
		6						300	450	900	1600	3600	6000
		10								400	800	1200	1450
		⩾ 16											
	D	⩽ 1		T	T	T	T	T	T	T	T	T	T
		2			150	T	T	T	T	T	T	T	T
		3				200	900	T	T	T	T	T	T
		4					400	600	1500	T	T	T	T
		6						300	450	900	1600	3600	6000
		10								400	700	1200	1450
		⩾ 16											
C60H-DC 1P or 2P [1]	**C**	⩽ 1		T	T	T	T	T	T	T	T	T	T
		2			150	T	T	T	T	T	T	T	T
		3				300	1200	T	T	T	T	T	T
		4					500	800	1500	T	T	T	T
		6						370	450	900	1600	3600	7300
		10								400	800	1200	1800
		⩾ 16											

T : Total selectivity, up to the breaking capacity of the downstream circuit breaker.

700 : Selectivity limit = 700 A

: No selectivity.

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).

[2] According to the voltage and number of pole used, the breaking capacity can changed. Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and - Selectivity limits in this table for Case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: C120, NG125 curve B
Downstream: iC60 curves B, C, D, C60H-DC curve C

A

Ue: 24-48-60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			C120N/H/L, NG125N/H/L, 1P or 2P [1]										
			Curve B										
In (A)			10	16	20	25	32	40	50	63	80	100	125
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A)** [2]										
iC60N/H/L 1P or 2P [1]	**B**	⩽ 2	T	T	T	T	T	T	T	T	T	T	T
		3	150	T	T	T	T	T	T	T	T	T	T
		4		300	500	1000	1250	T	T	T	T	T	T
		6			300	500	600	1800	2000	5500	T	T	T
		10						700	700	1900	5000	9500	T
		16									2000	3500	8500
		20										2000	4200
		⩾ 25											
	C	⩽ 2	T	T	T	T	T	T	T	T	T	T	T
		3	120	T	T	T	T	T	T	T	T	T	T
		4		250	900	1100	1300	T	T	T	T	T	T
		6				500	500	1400	2000	4500	T	T	T
		10						500	600	1500	5000	9000	T
		16									1800	3000	7000
		20										2000	3500
		⩾ 25											
	D	⩽ 1	T	T	T	T	T	T	T	T	T	T	T
		2	5000	T	T	T	T	T	T	T	T	T	T
		3		600	T	T	T	T	T	T	T	T	T
		4			500	800	1000	T	T	T	T	T	T
		6				300	300	1100	1600	3500	T	T	T
		10						400	400	1200	4000	8000	T
		16							250	400	1400	2500	6000
		20									600	1400	3500
		⩾ 25											
C60H-DC 1P or 2P [1]	**C**	⩽ 2	T	T	T	T	T	T	T	T	T	T	T
		3	120	T	T	T	T	T	T	T	T	T	T
		4		250	900	1100	1300	T	T	T	T	T	T
		6				500	500	1400	2000	4500	T	T	T
		10						500	600	1500	5000	9000	T
		16									1800	3000	7000
		20										2000	3500
		⩾ 25											

T : Total selectivity, up to the breaking capacity of the downstream circuit breaker.

700 : Selectivity limit = 700 A

: No selectivity.

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).

[2] According to the voltage and number of pole used, the breaking capacity can changed. Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and - Selectivity limits in this table for Case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: C120, NG125 curve C
Downstream: iC60 curves B, C, D, C60H-DC curve C

Ue: 24-48-60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			C120N/H/L, NG125N/H/L, 1P or 2P [1]										
			Curve C										
In (A)			10	16	20	25	32	40	50	63	80	100	125
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
iC60N/H/L 1P or 2P [1]	**B**	⩽ 2	T	T	T	T	T	T	T	T	T	T	T
		3	5000	T	T	T	T	T	T	T	T	T	T
		4		1500	2000	T	T	T	T	T	T	T	T
		6			400	1500	3000	T	T	T	T	T	T
		10						1800	3000	8000	T	T	T
		16						1000	1400	2500	15000	T	T
		20									6500	11500	T
		25									4500	8500	15000
		32										5000	8000
		⩾ 40											
	C	⩽ 2	T	T	T	T	T	T	T	T	T	T	T
		3	5000	T	T	T	T	T	T	T	T	T	T
		4		1000	1400	T	T	T	T	T	T	T	T
		6			400	1000	2400	T	T	T	T	T	T
		10					800	1500	3000	8500	T	T	T
		16						800	1400	3000	15000	T	T
		20								1700	6500	11000	T
		25									4500	8500	12000
		32									3000	5000	7000
		⩾ 40											
	D	⩽ 2	T	T	T	T	T	T	T	T	T	T	T
		3	4000	T	T	T	T	T	T	T	T	T	T
		4		500	1000	T	T	T	T	T	T	T	T
		6				800	1900	T	T	T	T	T	T
		10					600	1200	2500	7000	T	T	T
		16						500	1000	2500	12000	T	T
		20								1400	5500	9000	T
		25									3500	7500	11000
		32										3500	6000
		⩾ 40											
C60H-DC 1P or 2P [1]	**C**	⩽ 2	T	T	T	T	T	T	T	T	T	T	T
		3	5000	T	T	T	T	T	T	T	T	T	T
		4		1000	1400	T	T	T	T	T	T	T	T
		6			400	1000	2400	T	T	T	T	T	T
		10					800	1500	3000	8500	T	T	T
		16						800	1400	3000	15000	T	T
		20								1700	6500	11000	T
		25									4500	8500	12000
		32									3000	5000	7000
		⩾ 40											

T : Total selectivity, up to the breaking capacity of the downstream circuit breaker.

700 : Selectivity limit = 700 A

: No selectivity.

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).

[2] According to the voltage and number of pole used, the breaking capacity can changed. Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and - Selectivity limits in this table for Case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: C120, NG125 curve D
Downstream: iC60 curves B, C, D, C60H-DC curve C

Ue: 24-48-60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			C120N/H/L, NG125N/H/L, 1P or 2P [1]										
			Curve D										
In (A)			10	16	20	25	32	40	50	63	80	100	125
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
iC60N/H/L 1P or 2P [1]	**B**	⩽ 3	T	T	T	T	T	T	T	T	T	T	T
		4	5000	T	T	T	T	T	T	T	T	T	T
		6		1000	2000	T	T	T	T	T	T	T	T
		10			1000	9000	1400	3500	5000	T	T	T	T
		16						1500	2500	6000	T	T	T
		20							2000	3500	T	T	T
		25									15000	T	T
		32									9000	T	T
		40									7000	10000	T
		50											10000
		63											5000
	C	⩽ 3	T	T	T	T	T	T	T	T	T	T	T
		4	5000	T	T	T	T	T	T	T	T	T	T
		6		1000	2000	T	T	T	T	T	T	T	T
		10			1000	9000	1400	3000	4000	15000	T	T	T
		16						1500	2000	6000	T	T	T
		20								3000	T	T	T
		25									12000	T	T
		32									8000	T	T
		40									5000	9000	T
		50											9000
		63											4000
	D	⩽ 3	T	T	T	T	T	T	T	T	T	T	T
		4	5000	T	T	T	T	T	T	T	T	T	T
		6		1000	2000	T	T	T	T	T	T	T	T
		10			1000	9000	1400	3000	4000	12000	T	T	T
		16						1200	2000	5000	T	T	T
		20									T	T	T
		25									10000	T	T
		32									6000	12000	T
		40										5000	10000
		50											5000
		63											
C60H-DC 1P or 2P [1]	**C**	⩽ 3	T	T	T	T	T	T	T	T	T	T	T
		4	5000	T	T	T	T	T	T	T	T	T	T
		6		1000	2000	T	T	T	T	T	T	T	T
		10			1000	9000	1400	3000	4000	15000	T	T	T
		16						1500	2000	6000	T	T	T
		20								3000	T	T	T
		25									12000	T	T
		32									8000	T	T
		40									5000	9000	T
		50											9000
		63											4000

T : Total selectivity, up to the breaking capacity of the downstream circuit breaker.

5000 : Selectivity limit = 5000 A

: No selectivity.

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).
[2] According to the voltage and number of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.
[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -
Selectivity limits in this table for Case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: ComPact NSX100/160/250 DC TM-D, TM-DC
Downstream: iC60, C120, NG125. C60H-DC

Ue: 24-48-60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100DC								NSX160DC			NSX250 DC				
		1P1D 2P2D F/N/M/S 3P3D F/S [1]															
	Trip unit	TMD, TM-DC								TMD, TM-DC			TM-DC				
	Rating	16	25	32	40	50	63	80	100	100	125	160	160	200		250	
	Im		fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	Mini	Maxi	Mini	Maxi
		260	400	550	700	700	700	800	800	800	1250	1250	1250	1000	2000	1250	2500

Downstream	Rating	Selectivity limit (kA) [2]															
iC60 N/H	0.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60 L	3	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D curves	4	0.26	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T
	5		0.4	5	10	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	6			0.55	5	10	T	T	T	T	T	T	T	T	T	T	T
[1]	10				0.7	5	T	T	T	T	T	T	T	T	T	T	T
	13					0.7	T	T	T	T	T	T	T	T	T	T	T
	15-16						5	T	T	T	T	T	T	T	T	T	T
	20						0.7	10	10	10	T	T	T	T	T	T	T
	25							5	10	10	T	T	T	T	T	T	T
	32							0.8	10	10	T	T	T	10	T	T	T
	40								5	5	10	T	T	5	T	T	T
	50								0.8	0.8	10	10	10		T	10	T
	63										5	5	5		T	5	T
C60H-DC	0.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	3	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	4	0.26	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T
	5		0.4	5	10	T	T	T	T	T	T	T	T	T	T	T	T
	6			0.55	5	10	T	T	T	T	T	T	T	T	T	T	T
	10				0.7	5	T	T	T	T	T	T	T	T	T	T	T
	13					0.7	T	T	T	T	T	T	T	T	T	T	T
	15-16						5	T	T	T	T	T	T	T	T	T	T
	20						0.7	10	10	10	T	T	T	T	T	T	T
	25							5	10	10	T	T	T	T	T	T	T
	30-32							0.8	10	10	T	T	T	10	T	T	T
	40								5	5	10	T	T	5	T	T	T
	50								0.8	0.8	10	10	10		T	10	T
	63										5	5	5		T	5	T
C120 N/H	63										1.25	5	5		5	T	T
B-C-D curves	80														5		T
1P1D or 2P2D	100														5		T
[1]	125																T
NG125 N/H/L	10		0.4	0.5	0.7	0.7	0.7	5	5	5	10	10	10	T	T	T	T
B-C-D curves	16			0.5	0.7	0.7	0.7	0.8	5	5	10	10	10	10	T	T	T
1P1D or 2P2D	20				0.7	0.7	0.7	0.8	0.8	0.8	10	10	10	5	T	T	T
[1]	25						0.7	0.8	0.8	0.8	10	10	10	5	T	T	T
	32							0.8	0.8	0.8	5	10	10	1	T	T	T
	40								0.8	0.8	5	10	10	1	T	T	T
	50										1.25	5	5	1	10	T	T
	63										1.25	5	5		5	T	T
	80														5		T
	100 (N)														5		T
	125 (N)																T

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).
[2] According to the voltage and number of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.
[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -
Selectivity limits in this table for Case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Com**Pact** NSX100/160/250 DC with parallel connection of poles
Downstream: iC60, C60H-DC, C120, NG125

A

Ue: 24-48-60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX 100DC F			NSX 160DC F	NSX 250 DC F			NSX 100DC F			NSX 160DC F	NSX 250DC F		
		2P2D				3P3D 2P used			4P4D						
		Parallel connection for + or -				Parallel connection for + or -			2 poles with parallel connection for + and - [2]						
	Trip unit	TM-D, TM-DC				TM-DC			TM-D, TM-DC				TM-DC		
	Rating	50	63	80	125	160	200		50	63	80	125	160	200	
	Equivalent rated current	125	158	200	313	400	500		115	145	184	288	368	460	
	Im	fixed	fixed	fixed	fixed	fixed	Mini	Maxi	fixed	fixed	fixed	fixed	fixed	Mini	Maxi
		1400	1400	1600	2500	2500	2000	4000	1400	1400	1600	2500	2500	2000	4000
Downstream	**Rating**	**Selectivity limit (kA)** [2]													
iC60 N / H	0.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60 L	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D-curves	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D [1]	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	13	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	15-16	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	20	10	T	T	T	T	T	T		T	T	T	T	T	T
	25	5	T	T	T	T	T	T	5	T	T	T	T	T	T
	32	0.8	T	T	T	T	T	T	0.8	T	T	T	T	T	T
	40		10	T	T	T	T	T		10	T	T	T	T	T
	50		10	10	T	T	10	T		10	10	T	T	10	T
	63		5	5	T	T	5	T		5	5	T	T	5	T
C60H-DC	0.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D [1]	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	13	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	15-16	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	20	10	T	T	T	T	T	T	10	T	T	T	T	T	T
	25	5	T	T	T	T	T	T	5	T	T	T	T	T	T
	30-32	0.8	T	T	T	T	T	T	0.8	T	T	T	T	T	T
	40		10	T	T	T	T	T		10	T	T	T	T	T
	50		10	10	T	T	10	T		10	10	T	T	10	T
	63		5	5	T	T	5	T		5	5	T	T	5	T
C120 N/H	63		1.25	5	T	T	T	T		1.25	5	T	T	T	T
B-C-D Curves	80				T	T		T				T	T		T
1P1D or 2P2D [1]	100				T	T		T				T	T		T
	125				T	T		T				T	T		T
NG125 N/H/L	10	5	10	10	T	T	T	T	5	10	10	T	T	T	T
B-C-D Curves	16	0.8	10	10	T	T	T	T	0.8	10	10	T	T	T	T
1P1D or 2P2D [1]	20	0.8	10	10	T	T	T	T	0.8	10	10	T	T	T	T
	25	0.8	10	10	T	T	T	T	0.8	10	10	T	T	T	T
	32	0.8	5	10	T	T	T	T	0.8	5	10	T	T	T	T
	40		5	10	T	T	T	T		5	10	T	T	T	T
	50		1.25	5	T	T	T	T		1.25	5	T	T	T	T
	63		1.25	5	T	T	T	T		1.25	5	T	T	T	T
	80				T	T		T				T	T		T
	100 (N)				T	T		T				T	T		T
	125 (N)				T	T		T				T	T		T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: ComPact NSX100/160/250 DC TM-G
Downstream: iC60, C60H-DC, C120, NG125

Ue: 24-48-60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100DC						NSX160DC			NSX250 DC		
		3P3D (1 or 2 P used) F/S [1]											
	Trip unit	TM-G						TM-G			TM-G		
	Rating	16	25	40	63	80	100	100	125	160	160	200	250
	Im	80	100	100	150	250	400	400	530	530	530	530	625

Downstream	In	Selectivity limit (kA) [2]											
iC60 N/H/L	0.5	10	10	10	T	T	T	T	T	T	T	T	T
B-C-D Curves	1	5	5	5	T	T	T	T	T	T	T	T	T
	2	0.08	0.1	0.1	10	T	T	T	T	T	T	T	T
	3			0.1	5	10	T	T	T	T	T	T	T
	4				0.15	5	10	10	T	T	T	T	T
1P1D or 2P2D [1]	5					0.25	5	5	T	T	T	T	T
	6						0.4	0.4	T	T	T	T	T
	10								10	10	10	10	T
	13								5	5	5	5	10
	15-16								5	5	5	5	5
	20								0.5	0.5	0.5	0.5	5
	25												0.6
	32												
	40												
	50												
	63												
C60H-DC	0.5	10	10	10	T	T	T	T	T	T	T	T	T
C Curves	1	5	5	5	T	T	T	T	T	T	T	T	T
	2	0.08	0.1	0.1	10	T	T	T	T	T	T	T	T
1P1D or 2P2D [1]	3			0.1	5	10	T	T	T	T	T	T	T
	4				0.15	5	10	10	T	T	T	T	T
	5					0.25	5	5	T	T	T	T	T
	6						0.4	0.4	T	T	T	T	T
	10								10	10	10	10	T
	13								5	5	5	5	10
	15-16								5	5	5	5	5
	20								5	5	5	5	5
	25								0.5	0.5	0.5	0.5	5
	30-32												0.6
	40												
	50												
	63												
NG125 N/H/L	10					0.25	0.4	0.4	0.5	0.5	0.5	0.5	0.6
B-C-D Curves	16						0.4	0.5	0.5	0.5	0.5	0.5	0.6
	20								0.5	0.5	0.5	0.5	0.6
1P1D or 2P2D [1]	25												0.6
	32												
	40												

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: ComPact NSX100/160/250 DC TM-D, TM-DC
Downstream: ComPact NSX100/160 DC TM-D, TM-DC, TM-G

A

Ue: 24-48-60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100 DC								NSX160 DC			NSX250 DC				
		1P1D 2P2D F/N/M/S (3P3D F/S) [1]											3P3D (1 or 2 P Used) F/S [1]				
	Trip unit	TM-D								TM-D, TM-DC			TM-DC				
	Rating	16	25	32	40	50	63	80	100	100	125	160	160	200		250	
	Im	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	Mini	Maxi	Mini	Maxi
		260	400	550	700	700	700	640	800	800	1250	1250	1250	1000	2000	1250	2500

Downstream	Rating	Im	Selectivity limit (kA) [2]															
NSX100DC	16	260			0.5	0.7	0.7	0.7	0.7	0.8	0.8	1.25	1.25	1.25	1	2	1.25	5
TM-D	25	400				0.7	0.7	0.7	0.7	0.8	0.8	1.25	1.25	1.25	1	2	1.25	5
(TM-DC)	32	400						0.7	0.7	0.8	0.8	1.25	1.25	1.25	1	2	1.25	5
1P1D or 2P2PD	40	700							0.7	0.8	0.8	1.25	1.25	1.25	1	2	1.25	5
(3P3D)	50	700							0.7	0.8	0.8	1.25	1.25	1.25	1	2	1.25	2.5
[1]	63	700								0.8	0.8	1.25	1.25	1.25	1	2	1.25	2.5
	80	800										1.25	1.25	1.25	1	2	1.25	2.5
	100	1000										1.25	1.25	1.25	1	2	1.25	2.5
NSX100DC	16	80			0.5	0.7	0.7	0.7	0.7	0.8	0.8	1.25	1.25	1.25	1	2	1.25	10
TM-G	25	100				0.7	0.7	0.7	0.7	0.8	0.8	1.25	1.25	1.25	1	2	1.25	5
3P3D	40	100							0.7	0.8	0.8	1.25	1.25	1.25	1	2	1.25	5
[1]	63	150							0.7	0.8	0.8	1.25	1.25	1.25	1	2	1.25	5
	80	250								0.8		1.25	1.25	1.25	1	2	1.25	2.5
	100	400										1.25	1.25	1.25	1	2	1.25	2.5
NSX160DC	100	1000										1.25	1.25	1.25	1	2	1.25	2.5
1P1D or 2P2D	125	1200															1.25	2.5
3P2D [1]	160	1250																
NSX160DC	125	530															1.25	2.5
TM-G 3P3D [1]	160	530																

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: ComPact NSX400/630/1200 DC TM-DC
Downstream: iC60, C60H-DC, C120, NG125

Ue: 24-48-60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX400DC F/S						NSX630DC F/S				NSX1200DC N							
		3P3D (1 or 2 P Used) [1]										2P2D							
	Trip unit	TM-DC						TM-DC				TM-DC							
	Rating	250		320		400		500		600		630		800		1000		1200	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
	Im	625	1250	800	1600	1000	2000	1250	2500	1500	3000	1575	3150	2000	4000	2500	5000	3000	6000

Downstream	Rating	Selectivity limit (kA) [2]																	
iC60 N/H/L	0.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	10	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	13	5	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	15-16	0.6	T	5	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T
	20		10	5	T	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	25		5	0.8	10	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	32		1.25	0.8	10	1	10	T	T	T	T	T	T	T	T	T	T	T	T
	40				10		10	T	T	T	T	T	T	T	T	T	T	T	T
	50				5		5	T	T	T	T	T	T	T	T	T	T	T	T
	63				5		2	T	T	T	T	T	T	T	T	T	T	T	T
C60H-DC	0.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	10	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	13	5	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	15-16	0.6	T	5	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T
	20		10	5	T	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	25		5	0.8	10	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	30-32		1.25	0.8	10	1	10	T	T	T	T	T	T	T	T	T	T	T	T
	40				10		10	T	T	T	T	T	T	T	T	T	T	T	T
	50				5		5	T	T	T	T	T	T	T	T	T	T	T	T
	63				5		2	T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H	63								T	1.5	T	1.5	T	5	T	T	T	T	T
	80								T		T		T	2	T	T	T	T	T
1P1D or 2P2D	100 (N)								T		T		T		T	T	T	T	T
[1]	125 (N)								5		T		T		T	5	T	T	T
NG125 N/H/L	10	0.625	5	5	10	5	10	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	16		1.25	0.8	10	5	10	T	T	T	T	T	T	T	T	T	T	T	T
	20				5	1	10	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	25				5	1	5	10	T	T	T	T	T	T	T	T	T	T	T
[1]	32				1.6	1	5	5	T	10	T	10	T	T	T	T	T	T	T
	40						2	5	T	5	T	5	T	T	T	T	T	T	T
	50							1.25	T	5	T	5	T	10	T	T	T	T	T
	63								T	1.5	T	1.5	T	5	T	T	T	T	T
	80								T		T		T	2	T	T	T	T	T
	100 (N)								T		T		T		T	T	T	T	T
	125 (N)								5		T		T		T	5	T	T	T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: ComPact NSX400/630/1200 DC TM-DC
Downstream: ComPact NSX100/160/250 DC TM-D, TM-DC, TM-G

A

Ue: 24-48-60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX400DC F/S						NSX630DC F/S				NSX1200DC N							
		3P3D (1 or 2 P Used) [1]										2P2D							
	Trip unit	TM-DC						TM-DC				TM-DC							
	Rating	250		320		400		500		600		630		800		1000		1200	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
	Im	625	1250	800	1600	1000	2000	1250	2500	1500	3000	1575	3150	2000	4000	2500	5000	3000	6000

Downstream	Rating	Im	Selectivity limit (kA) [2]																	
NSX100DC	16	260	0.63	1.25	0.8	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	T
TM-D	25	400		1.25	0.8	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	10
(TM-DC)	32	400				1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
1P1D or 2P2PD	40	700				1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
(3P3D)	50	700				1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
[1]	63	700				1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
	80	800					1	2		2.5		3	1.5	3.1	2	4	2.5	5	3	6
	100	1000						2		2.5		3		3.1	2	4	2.5	5	3	6
NSX100DC	16	80	0.63	1.25	0.8	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	T
TM-G	25	100	0.63	1.25	0.8	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	10
3P3P	40	100	0.63	1.25	0.8	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
[1]	63	150	0.63	1.25	0.8	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
	80	250	0.63	1.25	0.8	1.6	1	2		2.5		3	1.5	3.1	2	4	2.5	5	3	6
	100	400			0.8	1.6	1	2		2.5		3	1.5	3.1	2	4	2.5	5	3	6
NSX160DC	100	1000						2		2.5		3	1.5	3.1	2	4	2.5	5	3	6
TM-DC	125	1200								2.5		3		3.1		4	2.5	5	3	6
1P1D or 2P2PD	160	1250								2.5		3		3.1		4	2.5	5	3	6
NSX160DC	125	530								2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
TM-G 3P3D	160	530								2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
NSX250DC	200	1000								2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
TM-DC		2000										3		3.1		4	2.5	5	3	6
3P3D [1]	250	1250												3.1		4	2.5	5	3	6
		2500												3.1		4		5	3	6
NSX250DC	200	530							1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
TM-G 3P3D	250	625							1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Master**Pact** NW DC
Downstream: iC60, C60H-DC, C120, NG125. Com**Pact** NSX100/160/250

Ue: 24-48-60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NW10DC -C N/H					NW10DC -C N/H					NW10DC -C N/H				
							NW20DC -C N/H					NW20DC -C N/H				
												NW40DC-C N/H				
		2P2D														
	Trip unit	MicroLogic 1.0 DC														
		Range 1250/2500A					Range 2500/5400A					Range 5000/11000A				
	Type	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Setting	1250	1500	1600	2000	2500	2500	3300	4000	5000	5400	5000	8000	10000	11000	11000

Downstream	Rating	Im	Selectivity limit (kA) [2]														
iC60 N / H	0.5-63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C60H-DC	0.5-63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H	63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	80		1.25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100		1.25	1.5	T	T	T	T	T	T	T	T	T	T	T	T	T
	125		1.25	1.5	1.6	T	T	T	T	T	T	T	T	T	T	T	T
NG125 N/H/L	10-50		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	80		1.25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100 (N)		1.25	1.5	T	T	T	T	T	T	T	T	T	T	T	T	T
	125 (N)		1.25	1.5	1.6	T	T	T	T	T	T	T	T	T	T	T	T
NSX100DC N/H	16	260	1.25	1.5	1.6	10	T	T	T	T	T	T	T	T	T	T	T
TM-D	25	400	1.25	1.5	1.6	5	10	10	T	T	T	T	T	T	T	T	T
	32	400	1.25	1.5	1.6	2	5	5	T	T	T	T	T	T	T	T	T
	40	700		1.5	1.6	2	2.5	2.5	10	T	T	T	T	T	T	T	T
	50	700		1.5	1.6	2	2.5	2.5	5	T	T	T	T	T	T	T	T
	63	700		1.5	1.6	2	2.5	2.5	3.3	T	T	T	T	T	T	T	T
TM-DC	80	800		1.5	1.6	2	2.5	2.5	3.3	4	T	T	T	T	T	T	T
	100	1000				2	2.5	2.5	3.3	4	5	T	T	T	T	T	T
NSX100DC	16	80	1.25	1.5	1.6	10	T	T	T	T	T	T	T	T	T	T	T
TM-G	25	100	1.25	1.5	1.6	5	10	10	T	T	T	T	T	T	T	T	T
	40	100		1.5	1.6	2	2.5	2.5	10	T	T	T	T	T	T	T	T
	63	150		1.5	1.6	2	2.5	2.5	3.3	T	T	T	T	T	T	T	T
	80	250		1.5	1.6	2	2.5	2.5	3.3	4	T	T	T	T	T	T	T
	100	400				2	2.5	2.5	3.3	4	5	T	T	T	T	T	T
NSX160DC	100	1000				2	2.5	2.5	5	T	T	T	T	T	T	T	T
TM-DC	125	1200					2.5	2.5	3.3	10	T	T	T	T	T	T	T
	160	1250					2.5	2.5	3.3	5	10	T	T	T	T	T	T
NSX160DC	125	530	1.25	1.5	1.6	2	2.5	2.5	3.3	10	T	T	T	T	T	T	T
TM-G	160	530	1.25	1.5	1.6	2	2.5	2.5	3.3	5	10	T	T	T	T	T	T
NSX250DC	200	1000				2	2.5	2.5	5	T	T	T	T	T	T	T	T
TM-DC		2000								5	T	T	T	T	T	T	T
	250	1250					2.5	2.5	3.3	5	10	T	T	T	T	T	T
		2500						2.5	3.3	4	5	T	T	T	T	T	T
NSX250DC	200	530	1.25	1.5	1.6	2	2.5	2.5	5	T	T	T	T	T	T	T	T
TM-G	250	625		1.5	1.6	2	2.5	2.5	3.3	5	10	T	T	T	T	T	T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Master**Pact** NW DC
Downstream: Com**Pact** NSX400/630/1200 DC, Master**Pact** NW DC

A

Ue: 24-48-60 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NW10DC -C N/H					NW10DC -C N/H					NW10DC -C N/H				
							NW20DC -C N/H					NW20DC -C N/H				
												NW40DC-C N/H				
		2P2D														
	Trip unit	MicroLogic 1.0 DC														
		Range 1250/2500A					Range 2500/5400A					Range 5000/11000A				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Setting	1250	1500	1600	2000	2500	2500	3300	4000	5000	5400	5000	8000	10000	11000	11000

Downstream	Rating	Im	Selectivity limit (kA) [2]														
NSX400DC	250	635	1.25	1.5	1.6	2	2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
TM-DC		1250					2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
3P3D [1]	320	800			1.6	2	2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
		1600							3.3	4	5	5.4	5	10	T	T	T
	400	1000				2	2.5	2.5	3.3	4	5	5.4	5	10	T	T	T
		2000								4	5	5.4	5	10	T	T	T
NSX630DC	500	1250						2.5	3.3	4	5	5.4	5	T	T	T	T
TM-DC		2500									5	5.4	5	10	T	T	T
3P3D [1]	600	1500							3.3	4	5	5.4	5	10	T	T	T
		3000												10	T	T	T
NSX1200DC	630	1575							3.3	4	5	5.4	5	8	10	11	11
TM-DC		3150												8	10	11	11
3P3D [1]	800	2000								4	5	5.4	5	8	10	11	11
		4000												8	10	11	11
	1000	2500											5	8	10	11	11
		5000													10	11	11
	1200	3000												8	10	11	11
		6000														11	11
NW DC-C	1000	1250							3.3	4	5	5.4	5	8	10	11	11
		2500									5	5.4	5	8	10	11	11
	1000/2000	2500									5	5.4	5	8	10	11	11
		5400													10	11	11
	1000/2000/4000	5000													10	11	11
		11000															

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: C60H-DC curve C
Downstream: C60H-DC curve C

Ue: 110-125 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			C60H-DC, 1P or 2P [1]												
			Curve C												
In (A)			1	2	3	4	6	10	16	20	25	32	40	50	63
Downstream															
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A)** [2]												
C60H-DC 1P or 2P [1]	**C**	0.5	T	T	T	T	T	T	T	T	T	T	T	T	T
		1					250	T	T	T	T	T	T	T	T
		2						250	900	1800	11000	T	T	T	T
		3							300	500	700	1800	5000	T	T
		4										900	1300	3000	6000
		6												1200	1800
		≥ 10													

T : Total selectivity, up to the breaking capacity of the downstream circuit breaker.

500 : Selectivity limit = 500 A

: No selectivity.

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: C120, NG125 curves B, C, D
Downstream: C60H-DC curve C

A

Ue: 110-125 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream			C120N/H/L, NG125N/H/L, 1P or 2P [1]									
			Curve B									
In (A)			10	16	20	25	32	40	50	63	80	100	125
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
C60H-DC	**C**	0.5	500	T	T	T	T	T	T	T	T	T	T
1P or 2P [1]		1		450	T	T	T	T	T	T	T	T	T
		2			500	800	2500	T	T	T	T	T	T
		3						2400	4000	5000	T	T	T
		4						800	1000	1500	5000	T	T
		6									1800	3000	7000
		10										1500	3500
		16											2500
		≥ 20											

Upstream			C120N/H/L, NG125N/H/L, 1P or 2P [1]									
			Curve C									
In (A)			10	16	20	25	32	40	50	63	80	100	125
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
C60H-DC	**C**	0.5	T	T	T	T	T	T	T	T	T	T	T
1P or 2P [1]		1	1000	T	T	T	T	T	T	T	T	T	T
		2		5000	T	T	T	T	T	T	T	T	T
		3			1800	T	T	T	T	T	T	T	T
		4				1300	5500	12000	T	T	T	T	T
		6					2400	3000	6000	7000	12000	T	T
		10								3500	5500	8500	T
		16										5500	9000
		20											6000
		25											5000
		≥ 32											

Upstream			C120N/H/L, NG125N/H/L, 1P or 2P [1]									
			Curve D									
In (A)			10	16	20	25	32	40	50	63	80	100	125
Downstream													
Circuit breaker	**Curve**	**Rating (A)**	**Selectivity limit (A) [2]**										
C60H-DC	**C**	≤ 1	T	T	T	T	T	T	T	T	T	T	T
1P or 2P [1]		2	2500	6000	T	T	T	T	T	T	T	T	T
		3	700	1500	7000	T	T	T	T	T	T	T	T
		4			1800	10000	12000	T	T	T	T	T	T
		6				2500	3000	4000	6000	7000	T	T	T
		10							2000	3000	T	T	T
		16									9000	T	T
		20									5000	T	T
		25										10000	T
		32										5000	12000
		40											6000
		≥ 50											

T : Total selectivity, up to the breaking capacity of the downstream circuit breaker.

500 : Selectivity limit = 500 A

: No selectivity.

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).

[2] According to the voltage and number of pole used, the breaking capacity can changed. Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and - Selectivity limits in this table for Case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: ComPact NSX100/160/250 DC TM-DC
Downstream: iC60, C60H-DC, C120, NG125

Ue: 110-125 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100DC								NSX160DC			NSX250 DC				
		1P1D 2P2D F/N/M/S 3P3D F/S [1]											3P3D (1 or 2 P used) F/S [1]				
	Trip unit	TMD, TM-DC								TMD, TM-DC			TM-DC				
	Rating	16	25	32	40	50	63	80	100	100	125	160	160	200		250	
	Im	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	Mini	Maxi	Mini	Maxi
		260	400	550	700	700	700	800	800	800	1250	1250	1250	1000	2000	1250	2500

Downstream	Rating	Selectivity limit (kA) [2]															
iC60 N/H/L	0.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	3	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	0.26	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5		0.4	10	10	T	T	T	T	T	T	T	T	T	T	T	T
	6			5	5	10	T	T	T	T	T	T	T	T	T	T	T
	10			0.55	0.7	5	T	T	T	T	T	T	T	T	T	T	T
2x (1P1D or 2P2D) [1]	13					0.7	T	T	T	T	T	T	T	T	T	T	T
(2 Poles in serie)	15-16						5	T	T	T	T	T	T	T	T	T	T
	20						0.7	10	10	10	T	T	T	T	T	T	T
	25							5	10	10	T	T	T	T	T	T	T
	32							0.8	10	10	T	T	T	10	T	T	T
	40								5	5	10	T	T	5	T	T	T
	50								0.8	0.8	10	10	10		T	10	T
	63										5	10	5		T	5	T
C60H-DC	0.5	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C Curves	1	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	0.26	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D [1]	3		0.4	5	10	T	T	T	T	T	T	T	T	T	T	T	T
	4			0.5	5	10	T	T	T	T	T	T	T	T	T	T	T
	5				0.7	5	T	T	T	T	T	T	T	T	T	T	T
	6					5	10	T	T	T	T	T	T	T	T	T	T
	10					0.7	5	10	T	T	T	T	T	T	T	T	T
	13						0.7	5	10	10	T	T	T	T	T	T	T
	15-16							0.8	10	10	T	T	T	10	T	T	T
	20								5	5	T	T	T	5	T	T	T
	25								0.8	0.8	10	T	T	0.8	T	T	T
	30-32										5	10	10		T	10	T
	40											5	5		T	5	T
	50														10		10
	63														5		5
C120 N/H	63											1.25	1.25		5	10	T
B-C-D Curves	80														2		T
1P1D or 2P2D [1]	100														2		T
	125																T
NG125 N/H/L	10		0.4	0.5	0.7	0.7	0.7	0.8	0.8	0.8	10	10	10	5	T	T	T
B-C-D Curves	16			0.5	0.7	0.7	0.7	0.8	0.8	0.8	10	10	10	1	T	T	T
1P1D or 2P2D [1]	20				0.7	0.7	0.7	0.8	0.8	0.8	10	10	10	1	T	T	T
	25						0.7	0.8	0.8	0.8	5	10	10	1	T	T	T
	32							0.8	0.8	0.8	1.25	5	5	1	T	T	T
	40								0.8	0.8	1.25	1.25	1.25	1	10	T	T
	50										1.25	1.25	1.25	1	5	T	T
	63											1.25	1.25		5	10	T
	80														2		T
	100 (N)														2		T
	125 (N)																T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: ComPact NSX100/160/250 DC with parallel connection of poles
Downstream: iC60, C60H-DC, C120, NG125

A

Ue: 110-125 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX 100DC F			NSX 160DC F	NSX 250 DC F			NSX 100DC F			NSX 160DC F	NSX 250 DC F		
		2P2D				3P3D 2P used			4P4D						
		Parallel connection for + or -				Parallel connection for + or -			2 poles with parallel connection for + and - [2]						
	Trip unit	TM-D, TM-DC				TM-DC			TM-D, TM-DC				TM-DC		
	Rating	50	63	80	125	160	200		50	63	80	125	160	200	
	Equivalent rated current	125	158	200	313	400	500		115	145	184	288	368	460	
	Im	fixed	fixed	fixed	fixed	fixed	Mini	Maxi	fixed	fixed	fixed	fixed	fixed	Mini	Maxi
		1400	1400	1600	2500	2500	2000	4000	1400	1400	1600	2500	2500	2000	4000
Downstream	**Rating**	**Selectivity limit (kA)** [2]													
iC60 N/H/L	0.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T
2x (1P1D or 2P2D) [1]	13	T	T	T	T	T	T	T	T	T	T	T	T	T	T
(2 Poles in serie)	15-16	T	T	T	T	T	T	T	v	T	T	T	T	T	T
	20	10	T	T	T	T	T	T	10	T	T	T	T	T	T
	25	5	T	T	T	T	T	T	5	T	T	T	T	T	T
	32	0.8	T	T	T	T	T	T	0.8	T	T	T	T	T	T
	40		10	T	T	T	T	T		10	T	T	T	T	T
	50		10	10	T	T	10	T		10	10	T	T	10	T
	63		5	10	T	T	5	T		5	10	T	T	5	T
C60H-DC	0.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D [1]	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	10	T	T	T	T	T	T	10	T	T	T	T	T	T
	13	5	T	T	T	T	T	T	5	T	T	T	T	T	T
	15-16	0.8	T	T	T	T	T	T	0.8	T	T	T	T	T	T
	20		T	T	T	T	T	T		T	T	T	T	T	T
	25		10	T	T	T	T	T		10	T	T	T	T	T
	30-32		5	10	T	T	10	T		5	10	T	T	10	T
	40			5	T	T	5	T			5	T	T	5	T
	50				10	T		T				10	T		T
	63				5	T		T				5	T		T
C120 N/H	63			1.25	T	T	10	T			1.25	T	T	10	T
B-C-D Curves	80				T	T		T				T	T		T
1P1D or 2P2D [1]	100				T	T		T				T	T		T
	125				T	T		T				T	T		T
NG125 N/H/L	10	0.8	10	10	T	T	T	T	0.8	10	10	T	T	T	T
B-C-D Curves	16	0.8	10	10	T	T	T	T	0.8	10	10	T	T	T	T
1P1D or 2P2D [1]	20	0.8	10	10	T	T	T	T	0.8	10	10	T	T	T	T
	25	0.8	5	10	T	T	T	T	0.8	5	10	T	T	T	T
	32	0.8	1.25	5	T	T	T	T	0.8	1.25	5	T	T	T	T
	40		1.25	1.25	T	T	T	T		1.25	1.25	T	T	T	T
	50		1.25	1.25	T	T	T	T		1.25	1.25	T	T	T	T
	63			1.25	T	T	10	T			1.25	T	T	10	T
	80				T	T		T				T	T		T
	100 (N)				T	T		T				T	T		T
	125 (N)				T	T		T				T	T		T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: ComPact NSX100/160/250DC TM-G
Downstream: iC60, C60H-DC, NG125

Ue: 110-125 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100DC						NSX160DC			NSX250 DC		
		3P3D (1 or 2 P used) F/S [1]											
	Trip unit	TM-G						TM-G			TM-G		
	Rating	16	25	40	63	80	100	100	125	160	160	200	250
	Im	80	100	100	150	250	400	400	530	530	530	530	625

Downstream	In	Selectivity limit (kA) [2]											
iC60 N/H/L	0.5	10	10	10	T	T	T	T	T	T	T	T	T
B-C-D Curves	1	5	5	5	T	T	T	T	T	T	T	T	T
	2	0.08	0.1	0.1	10	T	T	T	T	T	T	T	T
	3			0.1	5	10	T	T	T	T	T	T	T
	4				0.15	5	10	10	T	T	T	T	T
2x(1P1D or 2P2D)	5					0.25	5	5	T	T	T	T	T
[1]	6						0.4	0.4	T	T	T	T	T
(2 Poles in serie)	10								10	10	10	10	T
	13								5	5	5	5	10
	15-16								5	5	5	5	5
	20								5	5	5	5	5
	25								0.5	0.5	0.5	0.5	5
	32												0.6
	40												
	50												
	63												
C60H-DC	0.5	5	5	5	10	T	T	T	T	T	T	T	T
C Curves	1	0.08	0.1	0.1	5	10	T	T	T	T	T	T	T
1P1D or 2P2D	2		0.1	0.1	0.15	5	10	10	T	T	T	T	T
[1]	3			0.1	0.15	0.25	5	5	T	T	T	T	T
	4				0.15	0.25	0.4	0.4	T	T	T	T	T
	5					0.25	0.4	0.4	T	T	T	T	T
	6						0.4	0.4	10	10	10	10	T
	10								10	10	10	10	10
	13								5	5	5	5	10
	15-16								0.5	0.5	0.5	0.5	5
	20								0.5	0.5	0.5	0.5	0.6
	25									0.5	0.5	0.5	0.6
	30-32												0.6
	40												
	50												
	63												
NG125 N/H/L	10					0.25	0.4	0.4	0.5	0.5	0.5	0.5	0.6
B-C-D Curves	16						0.4	0.5	0.5	0.5	0.5	0.5	0.6
1P1D or 2P2D	20								0.5	0.5	0.5	0.5	0.6
[1]	25												0.6
	32												
	40												

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: ComPact NSX100/160/250 DC TM-D, TM-DC
Downstream: ComPact NSX100/160 DC TM-D, TM-DC, TM-G

Ue: 110-125 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100 DC								NSX160 DC				NSX250 DC				
		1P1D 2P2D F/N/M/S (3P3D F/S) [1]												3P3D (1 or 2 P Used) F/S [1]				
	Trip unit	TM-D								TM-D, TM-DC				TM-DC				
	Rating	16	25	32	40	50	63	80	100	80	100	125	160	160	200		250	
		fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	Mini	Maxi	Mini	Maxi
	Im	260	400	550	700	700	700	640	800	640	800	1250	1250	1250	1000	2000	1250	2500

Downstream	Rating	Im	Selectivity limit (kA) [2]																
NSX100DC	16	260			0.5	0.7	0.7	0.7	0.7	0.8	0.7	0.8	1.25	1.25	1.25	1	2	1.25	5
TM-D	25	400				0.7	0.7	0.7	0.7	0.8	0.7	0.8	1.25	1.25	1.25	1	2	1.25	5
(TM-DC)	32	400						0.7	0.7	0.8	0.7	0.8	1.25	1.25	1.25	1	2	1.25	5
1P1D or 2P2PD (3P3D) [1]	40	700							0.7	0.8	0.7	0.8	1.25	1.25	1.25	1	2	1.25	2.5
	50	700							0.7	0.8	0.7	0.8	1.25	1.25	1.25	1	2	1.25	2.5
	63	700								0.8		0.8	1.25	1.25	1.25	1	2	1.25	2.5
	80	800											1.25	1.25	1.25	1	2	1.25	2.5
	100	1000											1.25	1.25	1.25	1	2	1.25	2.5
NSX100DC	16	80			0.5	0.7	0.7	0.7	0.7	0.8	0.7	0.8	1.25	1.25	1.25	1	2	1.25	10
TM-G	25	100				0.7	0.7	0.7	0.7	0.8	0.7	0.8	1.25	1.25	1.25	1	2	1.25	5
3P3D	40	100							0.7	0.8	0.7	0.8	1.25	1.25	1.25	1	2	1.25	5
[1]	63	150							0.7	0.8		0.8	1.25	1.25	1.25	1	2	1.25	5
	80	250								0.8			1.25	1.25	1.25	1	2	1.25	2.5
	100	400											1.25	1.25	1.25	1	2	1.25	2.5
NSX160DC	100	1000											1.25	1.25	1.25	1	2	1.25	2.5
1P1D or 2P2D	125	1200																1.25	2.5
3P2D [1]	160	1250																	
NSX160DC	125	530																1.25	2.5
TM-G 3P3D [1]	160	530																	

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for Case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Com**Pact** NSX400/630/1200 DC TM-DC
Downstream: iC60, C60H-DC, C120, NG125

Ue: 110-125 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX400DC F/S						NSX630DC F/S				NSX1200DC N							
		3P3D (1 or 2 P Used) [1]										2P2D							
	Trip unit	TM-DC						TM-DC				TM-DC							
	Rating	250		320		400		500		600		630		800		1000		1200	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
	Im	625	1250	800	1600	1000	2000	1250	2500	1500	3000	1575	3150	2000	4000	2500	5000	3000	6000

Downstream	Rating	Selectivity limit (kA) [2]																	
iC60 N/H/L	0.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
2x (1P1D or 2P2D)	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
(2 Poles in serie)	10	10	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	13	5	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	15-16	0.6	T	5	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T
	20		10	5	T	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	25		5	0.8	10	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	32		1.25	0.8	10	1	10	T	T	T	T	T	T	T	T	T	T	T	T
	40				10		10	T	T	T	T	T	T	T	T	T	T	T	T
	50				5		5	T	T	T	T	T	T	T	T	T	T	T	T
	63				5		2	T	T	T	T	T	T	T	T	T	T	T	T
C60H-DC	0.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C curve	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	15	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	5	T	15	T	15	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	0.6	T	10	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T
	13		15	5	T	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	15-16		5	0.8	15	5	15	T	T	T	T	T	T	T	T	T	T	T	T
	20		1.25		10	5	10	T	T	T	T	T	T	T	T	T	T	T	T
	25				10	1	10	T	T	T	T	T	T	T	T	T	T	T	T
	30-32				5	1	10	T	T	T	T	T	T	T	T	T	T	T	T
	40				5	1	5	T	T	T	T	T	T	T	T	T	T	T	T
	50				5	1	5	10	T	T	T	T	T	T	T	T	T	T	T
	63				5	1	5	10	T	T	T	T	T	T	T	T	T	T	T
C120 N/H	63								T		T		T		T	2.5	T	T	T
B-C-D Curves	80								5		T		T		T		T	T	T
1P1D or 2P2D	100 (N)								5		10		10		10		T	T	T
[1]	125 (N)								5		5		5		5		T	T	T
NG125 N/H/L	10	0.625	1.25	0.8	1.6	1	5	T	T	10	T	10	T	T	T	T	T	T	T
B-C-D Curves	16				1.6	1	2	5	T	5	T	5	T	T	T	T	T	T	T
1P1D or 2P2D	20						2	1.25	T	1.5	T	1.5	T	T	T	T	T	T	T
[1]	25								T		T		T	10	T	T	T	T	T
	32								T		T		T	5	T	10	T	T	T
	40								T		T		T	2	T	5	T	T	T
	50								T		T		T	2	T	2.5	T	T	T
	63								T		T		T		T	2.5	T	T	T
	80								5		T		T		T		T	T	T
	100 (N)								5		10		10		10		T	T	T
	125 (N)								5		5		5		5		T	T	T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: ComPact NSX400/630/1200 DC TM-DC
Downstream: ComPact NSX100/160/250 DC, TM-D, TM-DC, TM-G

A

Ue: 110-125 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX400DC F/S						NSX630DC F/S				NSX1200DC N							
	Trip unit	TM-DC						TM-DC				TM-DC							
	Rating	250		320		400		500		600		630		800		1000		1200	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
	Im	625	1250	800	1600	1000	2000	1250	2500	1500	3000	1575	3150	2000	4000	2500	5000	3000	6000

Downstream	Rating		Selectivity limit (kA) [2]																
NSX100DC	16	260	0.63	1.25	0.8	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	T
TM-D	25	400	0.63	1.25	0.8	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	10
(TM-DC)	32	400		1.25	0.8	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
1P1D or 2P2PD	40	700			0.8	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
(3P3D)	50	700				1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
[1]	63	700					1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
	80	800						2		2.5		3	1.5	3.1	2	4	2.5	5	3	6
	100	1000						2		2.5		3		3.1	2	4	2.5	5	3	6
NSX100DC	16	80	0.63	1.25	0.8	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	T
TM-G	25	100	0.63	1.25	0.8	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	10
3P3P	40	100			0.8	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
[1]	63	150					1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
	80	250						2		2.5		3	1.5	3.1	2	4	2.5	5	3	6
	100	400						2		2.5		3	1.5	3.1	2	4	2.5	5	3	6
NSX160DC	100	1000						2		2.5		3	1.5	3.1	2	4	2.5	5	3	6
TM-DC	125	1200								2.5		3		3.1		4	2.5	4	3	6
1P1D or 2P2PD	160	1250								2.5		3		3.1		4	2.5	4	3	6
NSX160DC	125	530								2.5	1.5	3	1.5	3.1	2	4	2.5	4	3	6
TM-G 3P3D	160	530								2.5	1.5	3	1.5	3.1	2	4	2.5	4	3	6
NSX250DC	200	1000								2.5	1.5	3	1.5	3.1	2	4	2.5	4	3	6
TM-DC		2000										3		3.1		4	2.5	4	3	6
3P3D [1]	250	1250												3.1		4	2.5	4	3	6
		2500												3.1		4		4	3	6
NSX250DC	200	530							1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	4	3	6
TM-G 3P3D	250	625							1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	4	3	6

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Master**Pact** NW DC
Downstream: iC60, C60H-DC, C120, NG125. Com**Pact** NSX100/160/250

Ue: 110-125 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NW10DC -C N/H					NW10DC -C N/H					NW10DC -C N/H				
							NW20DC -C N/H					NW20DC -C N/H				
												NW40DC-C N/H				
		2P2D														
	Trip unit	MicroLogic 1.0 DC														
		Range 1250/2500A					Range 2500/5400A					Range 5000/11000A				
	Type	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Setting	1250	1500	1600	2000	2500	2500	3300	4000	5000	5400	5kA	8kA	10kA	11kA	11kA

Downstream	Rating	Im	Selectivity limit (kA) [2]														
iC60 N/H/L 2x (1P1D or 2P2D) [1]	0.5-63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C60H-DC [1]	0.5-63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H	63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	80		1.25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	100		1.25	1.5	T	T	T	T	T	T	T	T	T	T	T	T	T
	125		1.25	1.5	1.6	T	T	T	T	T	T	T	T	T	T	T	T
NG125 N/H/L	10-50		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	80		1.25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	100 (N)		1.25	1.5	T	T	T	T	T	T	T	T	T	T	T	T	T
	125 N)		1.25	1.5	1.6	T	T	T	T	T	T	T	T	T	T	T	T
NSX100DC N/H	16	260	1.25	1.5	1.6	10	T	T	T	T	T	T	T	T	T	T	T
TM-D	25	400	1.25	1.5	1.6	5	10	10	T	T	T	T	T	T	T	T	T
	32	400	1.25	1.5	1.6	2	5	5	T	T	T	T	T	T	T	T	T
	40	700		1.5	1.6	2	2.5	2.5	10	T	T	T	T	T	T	T	T
	50	700		1.5	1.6	2	2.5	2.5	5	T	T	T	T	T	T	T	T
	63	700		1.5	1.6	2	2.5	2.5	3.3	T	T	T	T	T	T	T	T
TM-DC	80	800		1.5	1.6	2	2.5	2.5	3.3	4	T	T	T	T	T	T	T
	100	1000				2	2.5	2.5	3.3	4	5	T	T	T	T	T	T
NSX100DC	16	80	1.25	1.5	1.6	10	T	T	T	T	T	T	T	T	T	T	T
TM-G	25	100	1.25	1.5	1.6	5	10	10	T	T	T	T	T	T	T	T	T
	40	100		1.5	1.6	2	2.5	2.5	10	T	T	T	T	T	T	T	T
	63	150		1.5	1.6	2	2.5	2.5	3.3	T	T	T	T	T	T	T	T
	80	250		1.5	1.6	2	2.5	2.5	3.3	4	T	T	T	T	T	T	T
	100	400				2	2.5	2.5	3.3	4	5	T	T	T	T	T	T
NSX160DC	100	1000				2	2.5	2.5	5	T	T	T	T	T	T	T	T
TM-DC	125	1200					2.5	2.5	3.3	10	T	T	T	T	T	T	T
	160	1250					2.5	2.5	3.3	5	10	T	T	T	T	T	T
NSX160DC	125	530	1.25	1.5	1.6	2	2.5	2.5	3.3	10	T	T	T	T	T	T	T
TM-G	160	530	1.25	1.5	1.6	2	2.5	2.5	3.3	5	10	T	T	T	T	T	T
NSX250DC	200	1000				2	2.5	2.5	5	T	T	T	T	T	T	T	T
TM-DC		2000								4	5	T	T	T	T	T	T
	250	1250					2.5	2.5	3.3	5	10	T	T	T	T	T	T
		2500						2.5	3.3	4	5	T	T	T	T	T	T
NSX250DC	200	530	1.25	1.5	1.6	2	2.5	2.5	5	T	T	T	T	T	T	T	T
TM-G	250	625		1.5	1.6	2	2.5	2.5	3.3	5	10	T	T	T	T	T	T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Master**Pact** NW DC
Downstream: Com**Pact** NSX400/630/1200 DC, Master**Pact** NW DC

Ue: 110-125 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NW10DC -C N/H					NW10DC -C N/H					NW10DC -C N/H				
							NW20DC -C N/H					NW20DC -C N/H				
												NW40DC-C N/H				
		2P2D														
	Trip unit	MicroLogic 1.0 DC														
		Range 1250/2500A					Range 2500/5400A					Range 5000/11000A				
	Type	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Setting	1250	1500	1600	2000	2500	2500	3300	4000	5000	5400	5000	8000	10000	11000	11000

Downstream	Rating	Im	Selectivity limit (kA) [2]														
NSX400DC	250	635	1.25	1.5	1.6	2	2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
TM-DC		1250					2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
3P3D [1]	320	800			1.6	2	2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
		1600							3.3	4	5	5.4	5	10	T	T	T
	400	1000				2	2.5	2.5	3.3	4	5	5.4	5	10	T	T	T
		2000								4	5	5.4	5	10	T	T	T
NSX630DC	500	1250						2.5	3.3	4	5	5.4	5	T	T	T	T
TM-DC		2500									5	5.4	5	10	T	T	T
3P3D [1]	600	1500							3.3	4	5	5.4	5	10	T	T	T
		3000												10	T	T	T
NSX1200DC	630	1575							3.3	4	5	5.4	5	8	10	11	11
TM-DC		3150												8	10	11	11
3P3D [1]	800	2000								4	5	5.4	5	8	10	11	11
		4000												8	10	11	11
	1000	2500											5	8	10	11	11
		5000													10	11	11
	1200	3000												8	10	11	11
		6000														11	11
NW DC-C	1000	1250							3.3	4	5	5.4	5	8	10	11	11
		2500									5	5.4	5	8	10	11	11
	1000/2000	2500									5	5.4	5	8	10	11	11
		5400													10	11	11
	1000/2000/4000	5000													10	11	11
		11000															

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: C120, NG125 curves B, C, D
Downstream: C60H-DC curve C

Ue: 220-250 V DC [3]

Time constant (L/R):1.5 ms to 25 ms

Upstream		C120N/H/L, NG125N/H/L, 2P, 3P or 4P [1]										
		Curve B										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**Rating (A)**	**Selectivity limit (A) [2]**										
C60H-DC	0.5	500	T	T	T	T	T	T	T	T	T	T
1P or 2P [1]	1		250	500	750	1500	T	T	T	T	T	T
C Curves	2				600	900	2000	3000	3500	5500	T	T
	3						1300	1500	1800	3000	5000	T
	4							1000	1200	1700	2800	5000
	6									1400	2000	3200
	10										1400	2300
	16											2000
	≥ 20											

Upstream		C120N/H/L, NG125N/H/L, 2P, 3P or 4P [1]										
		Curve C										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream	**Rating (A)**	**Selectivity limit (A) [2]**										
C60H-DC	0.5	T	T	T	T	T	T	T	T	T	T	T
1P or 2P [1]	1	300	1700	6000	T	T	T	T	T	T	T	T
C Curves	2		1000	1600	6000	T	T	T	T	T	T	T
	3			1000	3000	4000	5000	T	T	T	T	T
	4					2500	3500	2500	4500	T	T	T
	6							1000	2500	T	T	T
	10								1700	4000	6000	8000
	16								1000	2500	4500	6000
	20									2000	3500	4500
	25										3000	4000
	≥ 32											

Upstream		C120N/H/L, NG125N/H/L, 2P, 3P or 4P [1]										
		Curve D										
In (A)		10	16	20	25	32	40	50	63	80	100	125
Downstream												
Circuit breaker	**Rating (A)**	**Selectivity limit (A) [2]**										
C60H-DC	0.5	T	T	T	T	T	T	T	T	T	T	T
1P or 2P [1]	1	1400	T	T	T	T	T	T	T	T	T	T
C Curves	2	800	3000	6000	T	T	T	T	T	T	T	T
	3			3500	5000	T	T	T	T	T	T	T
	4			1000	3000	5000	6000	T	T	T	T	T
	6					2000	2500	3500	4500	T	T	T
	10							2000	2500	8000	T	T
	16									6500	T	T
	20									4000	6000	T
	25										5500	7500
	32											5000
	≥ 40											

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

500 — Selectivity limit = 500 A.

No selectivity.

[1] Type of circuit breaker depend on earthing system and circuit breaker ranges (see Distribution guide direct current CA908061).
[2] According to the voltage and number of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.
[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -
Selectivity limits in this table for Case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).
Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: ComPact NSX100/160/250 TM-D, TM-DC
Downstream: C60H-DC, C120, NG125

Ue: 220-250 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100DC								NSX160DC			NSX250 DC				
		1P1D 2P2D F/N/M/S 3P3D F/S [1]											3P3D (1 or 2 P used) F/S [1]				
	Trip unit	TMD, TM-DC								TMD, TM-DC			TM-DC				
	Rating	16	25	32	40	50	63	80	100	100	125	160	160	200		250	
		fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	Mini	Maxi	Mini	Maxi
	Im	260	400	550	700	700	700	800	800	800	1250	1250	1250	1000	2000	1250	2500
Downstream	**Rating**	**Selectivity limit (kA)** [2]															
C60H-DC	0.5	5	10	10	10	T	T	T	T	T	T	T	T	T	T	T	T
C Curves	1	5	5	5	5	10	T	T	T	T	T	T	T	T	T	T	T
	2	0.26	0.4	0.55	0.7	5	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D [1]	3		0.4	0.55	0.7	0.7	T	T	T	T	T	T	T	T	T	T	T
	4			0.55	0.7	0.7	10	T	T	T	T	T	T	T	T	T	T
	5				0.7	0.7	10	10	T	T	T	T	T	T	T	T	T
	6					0.7	5	10	10	10	T	T	T	T	T	T	T
	10					0.7	5	5	5	5	T	T	T	T	T	T	T
	13						0.7	0.8	5	5	10	T	T	10	T	T	T
	15-16							0.8	0.8	5	10	10	10	5	T	T	T
	20								0.8	0.8	5	5	5	1	T	T	T
	25								0.8	0.8	5	5	5	1	T	T	T
	30-32										5	5	5		T	10	T
	40											5	5		T	5	T
	50														10		10
	63														5		5
C120 N/H	63											1.25	1.25		5	10	T
B-C-D Curves	80														2		T
2P2D or 4P4D [1]	100														2		T
	125																T
NG125 N/H/L	10		0.4	0.5	0.7	0.7	0.7	0.8	0.8	0.8	10	10	10	5	T	T	T
B-C-D Curves	16			0.5	0.7	0.7	0.7	0.8	0.8	0.8	10	10	10	1	T	T	T
2P2D or 4P4D [1]	20				0.7	0.7	0.7	0.8	0.8	0.8	10	10	10	1	T	T	T
	25						0.7	0.8	0.8	0.8	5	10	10	1	T	T	T
	32							0.8	0.8	0.8	1.25	5	5	1	T	T	T
	40								0.8	0.8	1.25	1.25	1.25	1	10	T	T
	50										1.25	1.25	1.25	1	5	T	T
	63											1.25	1.25		5	10	T
	80														2		T
	100 (N)														2		T
	125 (N)																T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: ComPact NSX100/160/250 DC TM-G
Downstream: C60H-DC, NG125

Ue: 220-250 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100DC						NSX160DC			NSX250 DC		
		3P3D (1 or 2 P used) F/S [1]											
	Trip unit	TM-G						TM-G			TM-G		
	Rating	16	25	40	63	80	100	100	125	160	160	200	250
	Im	80	100	100	150	250	400	400	530	530	530	530	625

Downstream	In	Selectivity limit (kA) [2]											
C60H-DC	0.5	5	5	5	5	5	5	5	T	T	T	T	T
C Curves	1	0.08	0.1	0.1	0.15	0.25	5	5	10	T	T	T	T
1P1D or 2P2D	2		0.1	0.1	0.15	0.25	0.4	0.4	10	10	10	T	T
[1]	3			0.1	0.15	0.25	0.4	0.4	5	10	10	10	T
	4				0.15	0.25	0.4	0.4	0.53	5	5	5	10
	5					0.25	0.4	0.4	0.53	0.53	0.53	0.53	5
	6						0.4	0.4	0.53	0.53	0.53	0.53	0.63
	10								0.53	0.53	0.53	0.53	0.63
	13								0.53	0.53	0.53	0.53	0.63
	15-16								0.53	0.53	0.53	0.53	0.63
	20								0.53	0.53	0.53	0.53	0.63
	25									0.53	0.53	0.53	0.63
	30-32												0.63
	40												
	50												
	63												
NG125 N/H/L	10												
B-C-D Curves	16												
2P2D or 4P4D	20												
[1]	25												
	32												
	40												

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: ComPact NSX100 - 250 DC TMD
Downstream: ComPact NSX100 - 160 DC TMD, TMG

Ue: 220-250 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX100 DC								NSX160 DC				NSX250 DC				
		1P1D 2P2D F/N/M/S (3P3D F/S) [1]												3P3D (1 or 2 P Used) F/S [1]				
	Trip unit	TM-D								TM-D, TM-DC				TM-DC				
	Rating	16	25	32	40	50	63	80	100	80	100	125	160	160	200		250	
		fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	fixed	Mini	Maxi	Mini	Maxi
	Im	260	400	550	700	700	700	640	800	640	800	1250	1250	1250	1000	2000	1250	2500

Downstream	Rating	Im	Selectivity limit (kA) [2]																
NSX100DC	16	260			0.5	0.7	0.7	0.7	0.7	0.8	0.8	0.8	1.25	1.25	1.25	1	2	1.25	5
TM-D	25	400				0.7	0.7	0.7	0.7	0.8	0.8	0.8	1.25	1.25	1.25	1	2	1.25	5
(TM-DC)	32	400						0.7	0.7	0.8	0.8	0.8	1.25	1.25	1.25	1	2	1.25	5
1P1D or 2P2PD (3P3D)	40	700							0.7	0.8	0.8	0.8	1.25	1.25	1.25	1	2	1.25	2.5
	50	700							0.7	0.8	0.8	0.8	1.25	1.25	1.25	1	2	1.25	2.5
[1]	63	700								0.8		0.8	1.25	1.25	1.25	1	2	1.25	2.5
	80	800											1.25	1.25	1.25	1	2	1.25	2.5
	100	1000											1.25	1.25	1.25	1	2	1.25	2.5
NSX100DC	16	80			0.5	0.7	0.7	0.7	0.7	0.8	0.8	0.8	1.25	1.25	1.25	1	2	1.25	10
TM-G	25	100				0.7	0.7	0.7	0.7	0.8	0.8	0.8	1.25	1.25	1.25	1	2	1.25	5
3P3D	40	100							0.7	0.8	0.8	0.8	1.25	1.25	1.25	1	2	1.25	5
[1]	63	150							0.7	0.8		0.8	1.25	1.25	1.25	1	2	1.25	5
	80	250								0.8			1.25	1.25	1.25	1	2	1.25	2.5
	100	400											1.25	1.25	1.25	1	2	1.25	2.5
NSX160DC TM-DC 1P1D or 2P2D 3P2D [1]	100	1000											1.25	1.25	1.25	1	2	1.25	2.5
	125	1200																1.25	2.5
	160	1250																	
NSX160DC	125	530																1.25	2.5
TM-G 3P3D [1]	160	530																	

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: ComPact NSX400/630/1200 DC TM-DC
Downstream: C60H-DC, C120, NG125

Ue: 220-250 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX400DC F/S						NSX630DC F/S				NSX1200DC N							
		3P3D (1 or 2 P Used) [1]										2P2D							
	Trip unit	TM-DC						TM-DC				TM-DC							
	Rating	250		320		400		500		600		630		800		1000		1200	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
Downstream	Im	625	1250	800	1600	1000	2000	1250	2500	1500	3000	1575	3150	2000	4000	2500	5000	3000	6000

Downstream	In	Selectivity limit (kA) [2]																	
C60H-DC	0.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C curve	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
1P1D or 2P2D	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	15	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	5	10	T	T	T	10	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	5	T	15	T	5	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	0.6	T	10	T	1	T	T	T	T	T	T	T	T	T	T	T	T	T
	13		10	5	10		10	10	T	10	T	10	T	10	T	T	T	T	T
	15-16		5	0.8	5		5	5	T	5	T	5	T	5	T	T	T	T	T
	20		1.25		1.6		5	1.25	T	1.5	T	1.5	T	5	T	T	T	T	T
	25						2		T		T		T	2	T	T	T	T	T
	30-32								T		T		T		T	T	T	T	T
	40								T		T		T		T	T	T	T	T
	50								T		T		T		T	T	T	T	T
	63								T		T		T		T	T	T	T	T
NG125 N/H/L	10	0.625	1.25	0.8	1.6	1	5	T	T	10	T	10	T	T	T	T	T	T	T
B-C-D Curves	16				1.6	1	2	5	T	5	T	5	T	T	T	T	T	T	T
2P2D or 4P4D	20						2	1.25	T	1.5	T	1.5	T	T	T	T	T	T	T
[1]	25								T		T		T	T	T	T	T	T	T
	32								T		T		T	10	T	T	T	T	T
	40								T		T		T	10	T	10	T	T	T
	50								T		T		T	5	T	10	T	T	T
	63								T		T		T		T	5	T	T	T
	80								5		T		T		T		T	T	T
	100 (N)								5		10		10		10		T	T	T
	125 (N)								5		5		5		5		T	T	T
C120 N/H	63								T		T		T		T	5	T	T	T
B-C-D Curves	80								5		T		T		T		T	T	T
2P2D or 4P4D	100								5		10		10		10		T	T	T
[1]	125								5		5		5		5		T	T	T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: ComPact NSX400/630/1200 DC TM-DC
Downstream: ComPact NSX100/160 DC TM-D, TM-DC, TM-G

A

Ue: 220-250 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NSX400DC F/S						NSX630DC F/S				NSX1200DC N							
	Trip unit	TM-DC						TM-DC				TM-DC							
	Rating	250		320		400		500		600		630		800		1000		1200	
		min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
	Im	625	1250	800	1600	1000	2000	1250	2500	1500	3000	1575	3150	2000	4000	2500	5000	3000	6000

Downstream	Rating	Im	Selectivity limit (kA) [2]																
NSX100DC	16	260	0.63	1.25	0.8	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	T
TM-D	25	400	0.63	1.25	1	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	10
(TM-DC)	32	400		1.25	1	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
1P1D or 2P2PD	40	700			1	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
(3P3D)	50	700				1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
[1]	63	700					1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
	80	800						2		2.5		3	1.5	3.1	2	4	2.5	5	3	6
	100	1000						2		2.5		3		3.1	2	4	2.5	5	3	6
NSX100DC	16	80	0.63	1.25	0.8	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	T
TM-G	25	100	0.63	1.25	1	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	10
3P3D [1]	40	100			1	1.6	1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
	63	150					1	2	1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	5	3	6
	80	250						2		2.5		3	1.5	3.1	2	4	2.5	5	3	6
	100	400						2		2.5		3	1.5	3.1	2	4	2.5	5	3	6
NSX160DC	100	1000						2		2.5		3	1.5	3.1	2	4	2.5	5	3	6
TM-DC	125	1200								2.5		3		3.1		4	2.5	4	3	6
1P1D or 2P2PD	160	1250								2.5		3		3.1		4	2.5	4	3	6
NSX160DC	125	530								2.5	1.5	3	1.5	3.1	2	4	2.5	4	3	6
TM-G 3P3D	160	530								2.5	1.5	3	1.5	3.1	2	4	2.5	4	3	6
NSX250DC	200	1000								2.5	1.5	3	1.5	3.1	2	4	2.5	4	3	6
TM-DC		2000										3		3.1		4	2.5	4	3	6
3P3D [1]	250	1250												3.1		4	2.5	4	3	6
		2500												3.1		4		4	3	6
NSX250DC	200	530							1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	4	3	6
TM-G 3P3D	250	625							1.25	2.5	1.5	3	1.5	3.1	2	4	2.5	4	3	6

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Master**Pact** NW DC
Downstream: C60H-DC, C120, NG125. Com**Pact** NSX100/160/250 DC

Ue: 220-250 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NW10DC -C N/H					NW10DC -C N/H					NW10DC -C N/H				
							NW20DC -C N/H					NW20DC -C N/H				
												NW40DC-C N/H				
		2P2D														
	Trip unit	MicroLogic 1.0 DC														
		Range 1250/2500A					Range 2500/5400A					Range 5000/11000A				
	Type	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Setting	1250	1500	1600	2000	2500	2500	3300	4000	5000	5400	5kA	8kA	10kA	11kA	11kA

Downstream	Rating	Im	Selectivity limit (kA) [2]														
C60H-DC [1]	0.5-63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
C120 N/H	63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
2P/2P or 4P4D	80		1.25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	100		1.25	1.5	T	T	T	T	T	T	T	T	T	T	T	T	T
	125		1.25	1.5	1.6	T	T	T	T	T	T	T	T	T	T	T	T
NG125 N/H/L	10-50		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	63		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
2P/2P or 4P4D	80		1.25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
[1]	100 (N)		1.25	1.5	T	T	T	T	T	T	T	T	T	T	T	T	T
	125 N)		1.25	1.5	1.6	T	T	T	T	T	T	T	T	T	T	T	T
NSX100DC N/H	16	260	1.25	1.5	1.6	2	2.5	2.5	10	T	T	T	T	T	T	T	T
TM-D	25	400	1.25	1.5	1.6	2	2.5	2.5	5	T	T	T	T	T	T	T	T
	32	400	1.25	1.5	1.6	2	2.5	2.5	3.3	10	T	T	T	T	T	T	T
1P1D or 2P2D	40	700		1.5	1.6	2	2.5	2.5	3.3	5	10	T	10	T	T	T	T
[1]	50	700		1.5	1.6	2	2.5	2.5	3.3	4	5	T	5	T	T	T	T
	63	700		1.5	1.6	2	2.5	2.5	3.3	4	5	10	5	T	T	T	T
TM-DC	80	800		1.5	1.6	2	2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
[1]	100	1000				2	2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
NSX100DC	16	80	1.25	1.5	1.6	2	2.5	2.5	10	T	T	T	T	T	T	T	T
TM-G	25	100	1.25	1.5	1.6	2	2.5	2.5	5	T	T	T	T	T	T	T	T
[1]	40	100		1.5	1.6	2	2.5	2.5	3.3	5	10	T	10	T	T	T	T
3P3D	63	150		1.5	1.6	2	2.5	2.5	3.3	4	5	10	5	T	T	T	T
	80	250		1.5	1.6	2	2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
	100	400				2	2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
NSX160DC	100	1000				2	2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
TM-DC 1P1D or 2P2D	125	1200					2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
[1]	160	1250					2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
NSX160DC	125	530	1.25	1.5	1.6	2	2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
TM-G 3P3D	160	530	1.25	1.5	1.6	2	2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
NSX250DC	200	1000				2	2.5	2.5	5	4	5	5.4	5	T	T	T	T
TM-DC		2000								4	5	5.4	5	T	T	T	T
[1]	250	1250					2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
3P3D		2500						2.5	3.3	4	5	5.4	5	T	T	T	T
NSX250DC	200	530	1.25	1.5	1.6	2	2.5	2.5	5	4	5	5.4	5	T	T	T	T
TM-G	250	625		1.5	1.6	2	2.5	2.5	3.3	4	5	5.4	5	T	T	T	T

[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity table

Upstream: Master**Pact** NW DC
Downstream: Com**Pact** NSX400/630/1200 DC, Master**Pact** NW DC

Ue: 220-250 V DC [3]

Time constant: 1.5 ms - 25 ms

Upstream		NW10DC -C N/H					NW10DC -C N/H					NW10DC -C N/H				
							NW20DC -C N/H					NW20DC -C N/H				
												NW40DC-C N/H				
		2P2D														
	Trip unit	MicroLogic 1.0 DC														
		Range 1250/2500A					Range 2500/5400A					Range 5000/11000A				
	Type	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Setting	1250	1500	1600	2000	2500	2500	3300	4000	5000	5400	5000	8000	10000	11000	11000

Downstream	Rating	Im	Selectivity limit (kA) [2]														
NSX400DC	250	635	1.25	1.5	1.6	2	2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
TM-DC		1250					2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
3P3D [1]	320	800			1.6	2	2.5	2.5	3.3	4	5	5.4	5	T	T	T	T
		1600							3.3	4	5	5.4	5	10	T	T	T
	400	1000				2	2.5	2.5	3.3	4	5	5.4	5	10	T	T	T
		2000								4	5	5.4	5	10	10	11	11
NSX630DC	500	1250						2.5	3.3	4	5	5.4	5	10	10	11	11
TM-DC		2500									5	5.4	5	10	10	11	11
3P3D [1]	600	1500							3.3	4	5	5.4	5	10	10	11	11
		3000												10	10	11	11
NSX1200DC	630	1575							3.3	4	5	5.4	5	8	10	11	11
TM-DC		3150												8	10	11	11
3P3D [1]	800	2000								4	5	5.4	5	8	10	11	11
		4000												8	10	11	11
	1000	2500											5	8	10	11	11
		5000													10	11	11
	1200	3000												8	10	11	11
		6000														11	11
MasterPact	1000	1250							3.3	4	5	5.4	5	8	10	11	11
NW DC-C		2500									5	5.4	5	8	10	11	11
	1000/2000	2500									5	5.4	5	8	10	11	11
		5400													10	11	11
	1000/2000/4000	5000													10	11	11
		11000															

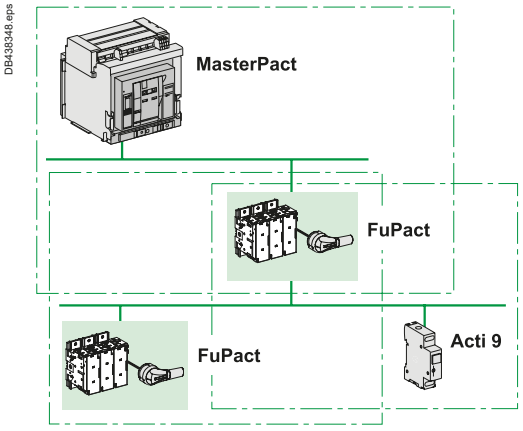
[1] Type of circuit breaker (1P1D, 2P2D) depend on earthing system and circuit breaker ranges.
For voltage up to 60Vdc one single pole of iC60 C120 NG125 NSX range is enough to break the current.
For ranges with 3P or 4P breakers only (NSX250 for example), one or two poles only are used of a 3P circuit breaker.

[2] According to the voltage and nb of pole used, the breaking capacity can changed.
Selectivity limit is the minimum of the value indicated in the table and the breaking capacity of downstream circuit breaker.

[3] This table is applicable for Case 1, Case 2, Case 3, Case 4 defined in introduction with this voltage between + and -.
Selectivity limits in this table for case 1 and Case 3 can also apply to system with higher voltage (up to 2 times) for the same circuit breaker (same number of poles used).

Compliancy of circuit breakers according to voltage and earthing system shall be checked before using this table.

Selectivity with fuses - Introduction



Principle

Schneider Electric offers a coordinated protection system

In an electrical installation, protection fuses are never used alone and must always be integrated in a system comprising circuit breakers.
Coordination is required between:

- upstream and downstream fuses
- upstream circuit breakers and downstream fuses
- upstream fuses and downstream circuit breakers.

Upstream fuse / Downstream fuse

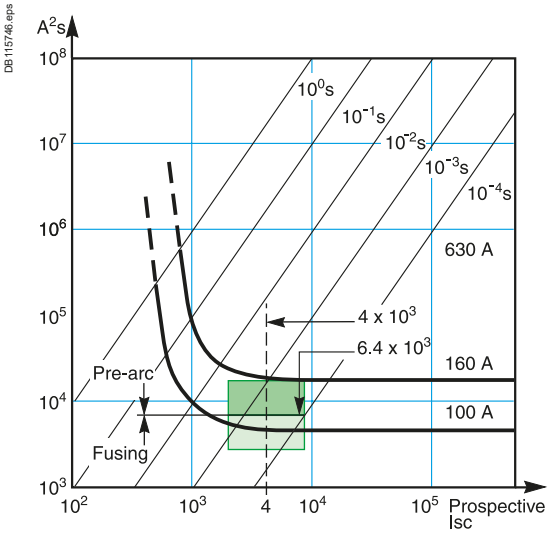
Selectivity is obtained when

Total energy of downstream fuse (Etav) < Pre-arcing energy of upstream fuse (Epam)

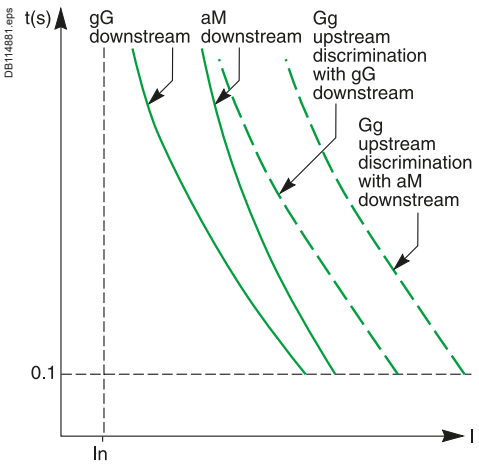
Note: If Etav is higher than 80 % of Epam, the upstream fuse may be derated.

■ **Upstream gG fuse-link / downstream gG fuse-link**

Standard IEC 60269-2-1 indicates limit values for pre-arcing and total energies for operation of gG and gM fuse-links, where the operating current is approximately 30 In.



Curves E = f (I) superimposed.



I = f(t) curves.

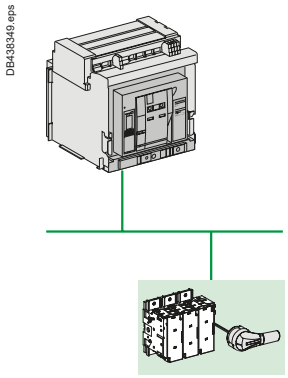
I²t limit and test currents for verification of selectivity

I_n (A)	Minimum values of pre-arcing I²t		Maximum values of operating I²t	
	Rms values of I prospective (kA)	I²t (A^2s)	Rms values of I prospective (kA)	I²t (A^2s)
16	0.27	291	0.55	1 210
20	0.40	640	0.79	2 500
25	0.55	1 210	1.00	4 000
32	0.79	2 500	1.20	5 750
40	1.00	4 000	1.50	9 000
50	1.20	5 750	1.85	13 700
63	1.50	9 000	2.30	21 200
80	1.85	13 700	3.00	36 000
100	2.30	21 200	4.00	64 000
125	3.00	36 000	5.10	104 000
160	4.00	64 000	6.80	185 000
200	5.10	104 000	8.70	302 000
250	6.80	185 000	11.80	557 000
315	8.70	302 000	15.00	900 000
400	11.80	557 000	20.00	1 600 000
500	15.00	900 000	26.00	2 700 000
630	20.00	1 600 000	37.00	5 470 000
800	26.00	2 700 000	50.00	10 000 000
1000	37.00	5 470 000	66.00	17 400 000
1250	50.00	10 000 000	90.00	33 100 000

■ **Upstream gG fuse-link / downstream aM fuse-link**

The I = f (t) curve for an aM fuse-link is steeper. aM fuse-links are just as fast as gG fuse-links for short-circuit currents, but slower for low overloads.
That is why the selectivity ratio between gG and aM fuse-links is approximately 2.5 to 4.

Selectivity with fuses - Introduction



Upstream circuit breaker / Downstream fuse

Upstream circuit breaker with delayed ST (short time) protection function

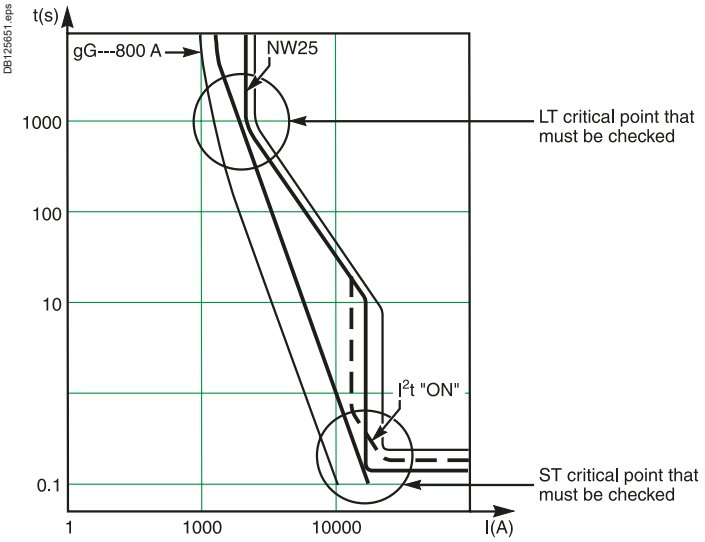
This is the situation for a MLVS (main low-voltage switchboard) or sub-distribution switchboard protected by an incoming circuit breaker.
The upstream circuit breaker has an electrodynamic withstand capacity Icw and provides time selectivity.

Rule

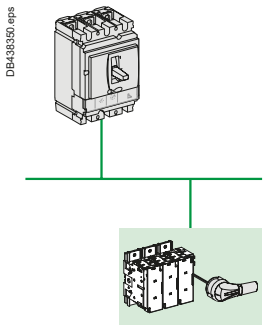
Examination of selectivity at the critical points on the LT (long time) and ST (short time) curves results in a selectivity table.
Analysis of the LT critical point indicates whether selectivity between the protection devices is possible or not.
Analysis of the ST (or Icw) critical point indicates whether the selectivity limit is greater than or equal to the ST (or Icw) value.

Note:

- the LT critical point is the most restrictive
- for circuit breakers with a Icw value that is high and/or equal to Icu, the ST critical point is almost never a problem, i.e. selectivity is total.



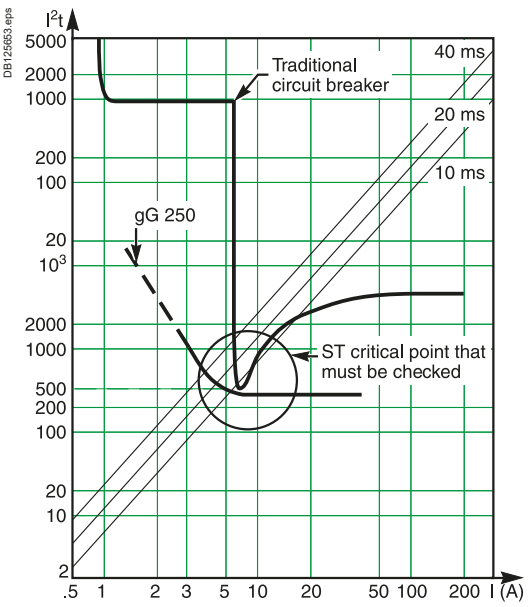
Time-current curves and critical points that must be checked.



Upstream circuit breaker with non-delayed ST (short time) protection and/or current-limiting function

For checking that the ST critical point is OK, it is necessary to compare:

- the energy curves of the protection devices
- the non-tripping curves of the upstream circuit breaker and the fusing curves of the downstream fuse, and to run tests for the critical values.

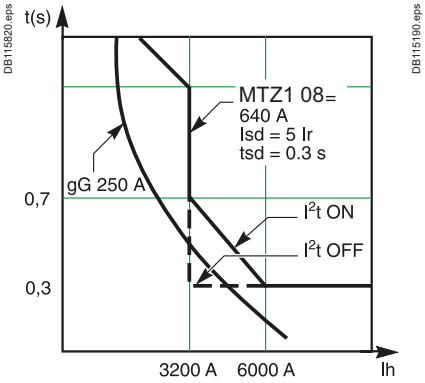


Energy curves and critical points that must be checked.

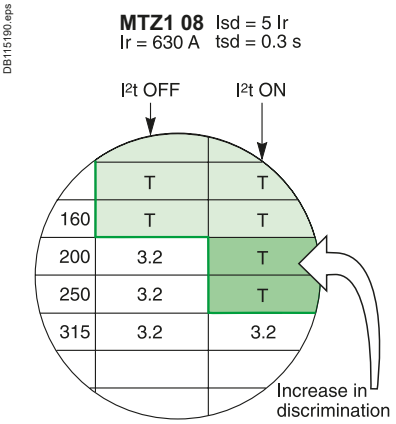
Selectivity with fuses - Introduction

I^2t ON setting

To significantly limit the stresses exerted on the installation (cables installed on trays, power supplied by an engine generator set, etc.), it may be necessary to set the ST protection function to a low value.
The I^2t ON function, a constant-energy tripping curve, maintains the level of selectivity performance and facilitates total selectivity.



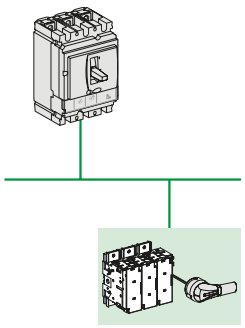
I^2t ON curve.



Increase in the selectivity limit.

Selectivity with fuses - Introduction

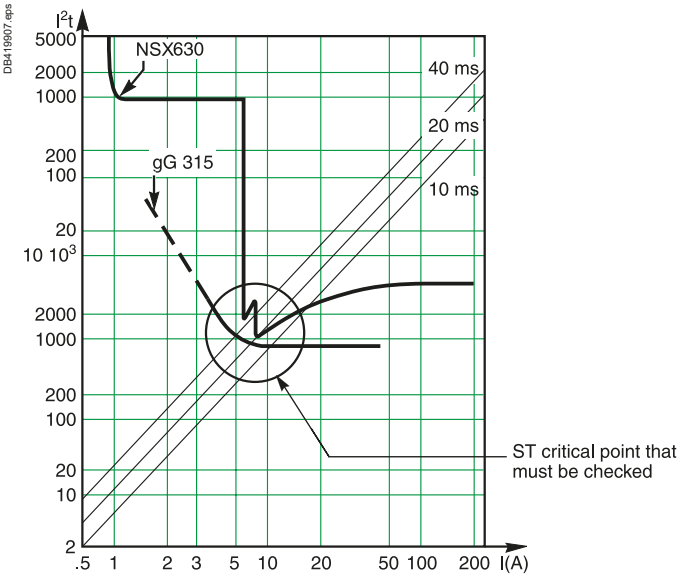
DB438350.eps



ComPact NSX upstream of gG or aM fuse-links

ComPact NSX is a current-limiting circuit breaker. Even without an ST (short time) delay setting, selectivity at the ST critical point is significantly improved because ComPact NSX has a mini-delay that considerably increases curve values at the ST critical point.

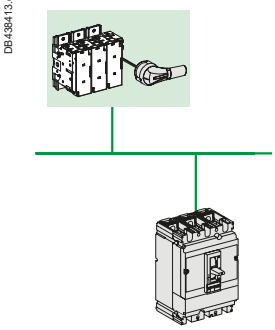
DB419907.eps



I²t curve for ComPact NSX and a fuse.

See pages A-150 and A-158 for the selectivity tables.

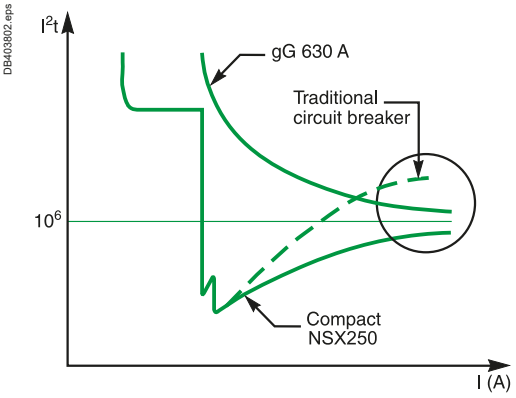
DB438413.eps



ComPact NSX downstream of gG or aM fuse-links

ComPact NSX offers an extremely high level of current-limiting performance due to the piston-based reflex tripping system. Again, selectivity is significantly improved with an upstream fuse.

DB403802.eps



See page A-158 for the selectivity tables.

Selectivity with fuses - Introduction

Upstream: Fu**Pact** (gG fuse-link)
Downstream: Fu**Pact** (gG or aM fuse-link)

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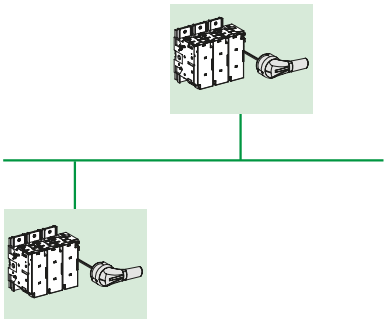


The tables below indicate the necessary ratings for the upstream and downstream fuse-links to achieve **total selectivity**. They take into account the standardised values stipulated in IEC 60269-1 and IEC 60269-2-1 for:
- the pre-arcing energies of the upstream fuse-links
- the total fusing energies of the downstream fuse-links.

Upstream fuse-link gG (In) / gM (Ich)	Downstream fuse-link gG (In) / gM (Ich)	aM (In)
Rating (A)		
16	6	4
20	10	6
25	16	8
32	20	10
40	25	12
50	32	16
63	40	20
80	50	25
100	63	32
125	80	40
160	100	63
200	125	80
250	160	125
315	200	125
400	250	160
500	315	200
630	400	250
800	500	315
1000	630	400
1250	8000	500

Examples:
- an upstream 125 A gG fuse-link provides total selectivity with an 80 A gG fuse-link and/or a 40 A aM fuse-link situated downstream
- an upstream 125 A gG fuse-link provides total selectivity with a 63 A gG 63M80 fuse-link (with an 80 A characteristic) situated downstream.

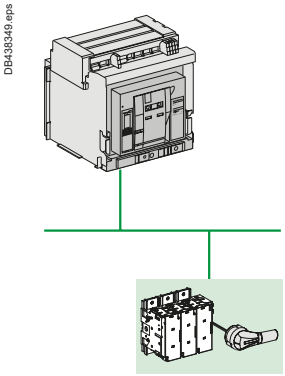
Selectivity tables with fuses

Upstream: Master**Pact** MTZ

Downstream: Fu**Pact** (gG or aM fuse-link)

A

Ue ⩽ 440 V AC



MicroLogic settings:
- LT setting: Tr = 24 seconds.
- ST setting: instantaneous OFF / Isd = 10 Ir / Tsd = 0.4 seconds.

Upstream	MasterPact MTZ MicroLogic 5.0 X - 6.0 X - 7.0 X																
	MTZ1 08 H1	MTZ1 08 H1	MTZ1 08 H1	MTZ1 08 H1	MTZ1 08 H1	MTZ1 08 H1	MTZ1 08 H1	MTZ1 08 H1	MTZ1 10 H1	MTZ1 12 H1	MTZ1 16 H1						
	MTZ2 08 N1 H1/H2	MTZ2 08 N1 H1/H2	MTZ2 08 N1 H1/H2	MTZ2 08 N1 H1/H2	MTZ2 08 N1 H1/H2	MTZ2 08 N1 H1/H2	MTZ2 08 N1 H1/H2	MTZ2 08 N1 H1/H2	MTZ2 10 N1 H1/H2	MTZ2 12 N1 H1/H2	MTZ2 16 N1 H1/H2	MTZ2 20 H1/H2 H3	MTZ2 25 H1/H2 H3	MTZ2 32 H1/H2 H3	MTZ2 40 H1/H2 H3	MTZ3 50 H1/H2	MTZ3 63 H1/H2

Down-stream	Rating (A)	400	400	400	630	800	800	800	800	1000	1200	1600	2000	2500	3200	4000	5000	6300
	Ir setting	160	200	240	315	400	480	630	800	1000	1200	1600	2000	2500	3200	4000	5000	6300
gG/aM[1] Fuse-link	32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	40	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	63	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	80	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	125		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	160			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	200				T	T	T	T	T	T	T	T	T	T	T	T	T	T
	250					T	T	T	T	T	T	T	T	T	T	T	T	T
	315						5	T	T	T	T	T	T	T	T	T	T	T
	355							T	T	T	T	T	T	T	T	T	T	T
	400							6	T	T	T	T	T	T	T	T	T	T
	500								8	T	T	T	T	T	T	T	T	T
	630									T	T	T	T	T	T	T	T	T
	800										12	T	T	T	T	T	T	T
	1000											16	T	T	T	T	T	T
	1250												20	T	T	T	T	T

16 Selectivity limit in kA

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

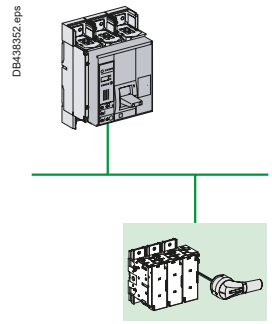
No selectivity.

Note: respect the basic rules of selectivity, in terms of overcurrent, short-circuit, see page A-2, or check curves with curve direct software.
[1] According to IEC 60269-1 a "XMY" gM fuses have the same conventional time and pre-arcing time as "Y" rated gG fuse. Tables for gG fuse can be used for gM fuse using the second number of gM for the gG equivalent rating.

Selectivity tables with fuses

Upstream: ComPact NS630b to 3200
Downstream: FuPact (gG fuse-link)

Ue ⩽ 440 V AC



MicroLogic settings:
- LT setting: Tr = 24 seconds.
- ST setting: instantaneous OFF / Isd = 10 Ir / Tsd = 0.4 seconds.

Upstream		ComPact NS L MicroLogic 5.0-6.0-7.0								
		NS630b	NS630b	NS630b	NS630b	NS630b	NS630b	NS630b	NS800	NS1000
Down-stream	Rating (A)	400	400	400	630	630	630	630	800	1000
	Ir setting	160	200	240	315	400	500	630	800	1000
gG[1] Fuse-link	32	T	T	T	T	T	T	T	T	T
	40	T	T	T	T	T	T	T	T	T
	50	T	T	T	T	T	T	T	T	T
	63	T	T	T	T	T	T	T	T	T
	80	T	T	T	T	T	T	T	T	T
	100		74	74	74	74	74	74	74	74
	125			41	41	41	41	41	41	41
	160				16	16	16	16	16	16
	200					10	10	10	10	10
	250						10	10	10	10
	315								10	10
	355								10	10
	400									10
	500									
	630									
	800									
	1000									
	1250									

Upstream		ComPact NS N/H MicroLogic 5.0-6.0-7.0													
		NS630b	NS630b	NS630b	NS630b	NS630b	NS630b	NS630b	NS800	NS1000	NS1250	NS1600	NS1600b	NS2000	NS2500	NS3200
Down-stream	Rating (A)	400	400	400	630	630	630	630	800	1000	1200	1600	1600	2000	2500	3200
	Ir setting	160	200	240	315	400	500	630	800	1000	1200	1600	1600	2000	2500	3200
gG[1] Fuse-link	32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	40	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	63	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	80	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T	T	T	T	T	T	T	T
	125			T	T	T	T	T	T	T	T	T	T	T	T	T
	160				T	T	T	T	T	T	T	T	T	T	T	T
	200					T	T	T	T	T	T	T	T	T	T	T
	250						T	T	T	T	T	T	T	T	T	T
	315								T	T	T	T	T	T	T	T
	355								44	44	44	44	T	T	T	T
	400									35	35	35	T	T	T	T
	500										25	25	T	T	T	T
	630											25	40	40	40	40
	800													40	40	40
	1000														40	40
	1250															40

41 Selectivity limit in kA

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

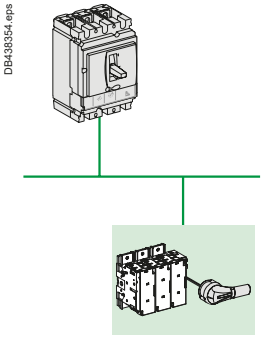
[1] According to IEC 60269-1 a "XMY" gM fuses have the same conventional time and pre-arcing time as "Y" rated gG fuse. Tables for gG fuse can be used for gM fuse using the second number of gM or the gG equivalent rating.

Selectivity tables with fuses

Upstream: ComPact NSX100 to 630
Downstream: FuPact (gG fuse-link)

A

Ue ⩽ 440 V AC



Upstream		NSX100B/F/N/H/S/L								NSX160B/F/N/H/S/L				NSX250B/F/N/H/S/L		
	Trip unit	TM-D								TM-D				TM-D		
	Rating (A)	100								160				250		
Down-stream	Ir setting	16	25	32	40	50	63	80	100	80	100	125	160	160	200	250
	Im (kA)	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	1	1	1	1	1	2	2.5
gG [1] Fuse-link	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	16				T	T	T	T	T	T	T	T	T	T	T	T
	20				T	T	T	T	T	T	T	T	T	T	T	T
	25				T	T	T	T	T	T	T	T	T	T	T	T
	32							T	T	T	T	T	T	T	T	T
	35											T	T	T	T	T
	40											T	T	T	T	T
	50											T	T	T	T	T
	63											T	T	T	T	T
	80														T	T
	100														T	T
	125														T	T
	160															T

Upstream		NSX100B/F/N/H/S/L							NSX160B/F/N/H/S/L			NSX250B/F/N/H/S/L			NSX400F/N/H/S/L			NSX630F/N/H/S/L		
	Trip unit	MicroLogic 2, 5, 6 Isd = 10 Ir							MicroLogic 2, 5, 6 Isd = 10 Ir			MicroLogic 2, 5, 6 Isd = 10 Ir			MicroLogic 2, 5, 6 Isd = 10 Ir			MicroLogic 2, 5, 6 Isd = 10 Ir		
Down-stream	Rating (A)	40			100				160			250			400			630		
	Ir setting	18	25	40	40	63	80	100	100	125	160	160	200	250	250	320	400	400	500	630
	Im (kA)		0.25	0.4	0.4	0.63	0.8	1	1	1.25	1.6	1.6	2	2.5	2.5	3.2	4	4	5	6.3
gG [1] Fuse-link	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	16			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	20					T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	25					T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	32						T	T	T	T	T	T	T	T	T	T	T	T	T	T
	35							T	T	T	T	T	T	T	T	T	T	T	T	T
	40							T	T	T	T	T	T	T	T	T	T	T	T	T
	50									T	T	T	T	T	T	T	T	T	T	T
	63											T	T	T	T	T	T	T	T	T
	80												T	T	T	T	T	T	T	T
	100													T	T	T	T	T	T	T
	125														T	T	T	T	T	T
	160																T	T	T	T
	200																		T	T
	250																			T

[1] According to IEC 60269-1 a "XMY" gM fuses have the same conventional time and pre-arcing time as "Y" rated gG fuse. Tables for gG fuse can be used for gM fuse using the second number of gM for the gG equivalent rating.

Selectivity tables with fuses

Upstream: Com**Pact** NSX100 to 630
Downstream: Fu**Pact** (aM fuse-link)

Ue ⩽ 440 V AC

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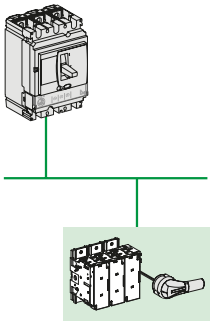


Upstream		NSX100B/F/N/H/S/L								NSX160B/F/N/H/S/L				NSX250B/F/N/H/S/L		
Trip unit		TM-D								TM-D				TM-D		
Down-stream	Rating (A)	16	25	32	40	50	63	80	100	80	100	125	160	160	200	250
	Im (kA)	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	1	1	1	1	1	2	2.5
aM Fuse-link	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10				T	T	T	T	T	T	T	T	T	T	T	T
	16						T	T	T	T	T	T	T	T	T	T
	20							T	T	T	T	T	T	T	T	T
	32											T	T	T	T	T
	35														T	T
	40														T	T
	50														T	T
	63														T	T

Upstream		NSX100B/F/N/H/S/L							NSX160B/F/N/H/S/L					NSX250B/F/N/H/S/L				
Trip unit		MicroLogic							MicroLogic					MicroLogic				
Down-stream	Rating (A)	40			100				160					250				
		18	25	40	40	63	80	100	63	80	100	125	160	100	125	160	200	250
	Im (kA)		0.25	0.4	0.4	0.63	0.8	1	0.63	0.8	1	1.25	1.6	1	1.25	1.6	2	2.5
aM Fuse-link	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	16					T	T	T	T	T	T	T	T	T	T	T	T	T
	20						T	T		T	T	T	T	T	T	T	T	T
	32											T	T		T	T	T	T
	35															T	T	T
	40															T	T	T
	50																T	T
	63																	T

Upstream		NSX400F/N/H/S/L					NSX630F/N/H/S/L				
Trip unit		MicroLogic					MicroLogic				
Down-stream	Rating (A)	400					630				
		160	200	250	320	400	250	320	400	500	630
	Im (kA)	1.6	2	2.5	3.2	4	2.5	3.2	4	5	6.3
aM Fuse-link	2	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T
	6	T	T	T	T	T	T	T	T	T	T
	10	T	T	T	T	T	T	T	T	T	T
	16	T	T	T	T	T	T	T	T	T	T
	20	T	T	T	T	T	T	T	T	T	T
	32	T	T	T	T	T	T	T	T	T	T
	35	T	T	T	T	T	T	T	T	T	T
	40	T	T	T	T	T	T	T	T	T	T
	50		T	T	T	T	T	T	T	T	T
	63			T	T	T	T	T	T	T	T
	80				T	T		T	T	T	T
	100					T			T	T	T

Selectivity tables with fuses

Upstream: ComPact NSXm MicroLogic, TM-D
Downstream: gG & aM fuses

A

Ue: 380-415 V AC

Upstream		ComPact NSXm E/B/F/N/H									
Trip unit		TM-D									
Downstream	Rating (A)	16	25	32	40	50	63	80	100	125	160
	Ir (A)	16	25	32	40	50	63	80	100	125	160
gG fuse [1]	2	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T
	6	T	T	T	T	T	T	T	T	T	T
	10	T	T	T	T	T	T	T	T	T	T
	16				T	T	T	T	T	T	T
	20				T	T	T	T	T	T	T
	25				T	T	T	T	T	T	T
	32							T	T	T	T
	35									T	T
	40									T	T
	50									T	T
	63									T	T
	80										

Upstream		ComPact NSXm E/B/F/N/H															
Trip unit		MicroLogic 4.1															
Downstream	Rating (A)	25				50					100				160		
	Ir (A)	10	16	20	25	20	25	32	40	50	50	63	80	100	100	125	160
gG fuse [1]	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	10		0.2	0.2	0.3	0.2	0.3	0.3	0.4	0.5	T	T	T	T	T	T	T
	16								0.4	0.5	T	T	T	T	T	T	T
	20								0.4	0.5	T	T	T	T	T	T	T
	25								0.4	0.5	T	T	T	T	T	T	T
	32												T	T	T	T	T
	35															T	T
	40															T	T
	50															T	T
	63															T	T
	80																

Upstream		ComPact NSXm E/B/F/N/H								
Trip unit		TM-D								
Downstream	Rating (A)	16	25	32	40	50	63	80	100	125	160
	Ir (A)	16	25	32	40	50	63	80	100	125	160
aM fuse	2	T	T	T	T	T	T	T	T	T	T
	4	T	T	T	T	T	T	T	T	T	T
	6	T	T	T	T	T	T	T	T	T	T
	10				T	T	T	T	T	T	T
	16						T	T	T	T	T
	20							T	T	T	T
	32									T	T
	40										

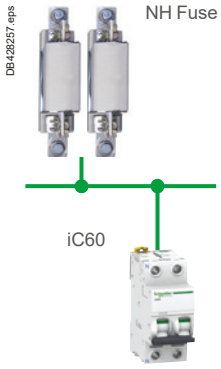
Upstream		ComPact NSXm E/B/F/N/H															
Trip unit		MicroLogic 4.1															
Downstream	Rating (A)	25				50					100				160		
	Ir (A)	10	16	20	25	20	25	32	40	50	50	63	80	100	100	125	160
aM fuse	2	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	4		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	6			0.2	0.3	0.2	0.3	0.3	0.4	0.5	T	T	T	T	T	T	T
	10							0.3	0.4	0.5	T	T	T	T	T	T	T
	16											T	T	T	T	T	T
	20												T	T	T	T	T
	32															T	T
	40																

[1] According to IEC 60269-1 a "XMY" gM fuses have the same conventional time and pre-arcing time as "Y" rated gG fuse. Tables for gG fuse can be used for gM fuse using the second number of gM for the gG equivalent rating.

Selectivity tables with fuses

Upstream: fuses NH000/NH00/NH0/NH1
Downstream: iC60N/H/L curve B, C, D

Ue: 380-415 V AC Ph/Ph
(220-240 V AC Ph/N)



Upstream		NH000/NH00/NH0/NH1													
	In (A)	16	20	25	32	35	40	50	63	80	100	125	160	200	250
Downstream	**Rating (A)**														
		Selectivity limit (kA)													
iC60 N/H/L Curve B	**0.5**	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1	1.6	4.5	T	T	T	T	T	T	T	T	T	T	T	T
	1.6	0.8	1.7	5	T	T	T	T	T	T	T	T	T	T	T
	2	0.65	1.2	2.7	5.1	7.5	15	T	T	T	T	T	T	T	T
	3		1	1.9	3.3	4.5	8	T	T	T	T	T	T	T	T
	4		0.75	1	2	2.7	4	7.5	9.5	T	T	T	T	T	T
	6			0.8	1.5	2	2.7	4.5	7.2	8.5	T	T	T	T	T
	10			0.6	1.1	1.5	1.9	2.9	5.4	5	12	13	T	T	T
	13			0.55	0.9	1.4	1.7	2.5	3.5	4.2	9.5	9.9	T	T	T
	16				0.8	1.2	1.5	2.2	3	3.6	7.8	8	T	T	T
	20					1	1.3	1.8	2.5	3.1	6	6.5	T	T	T
	25						1	1.7	2.2	2.8	5.4	5.7	15	T	T
	32							1.5	2	2.6	4.5	4.9	11.7	T	T
	40								1.9	2.4	4	4.6	10.2	T	T
	50									2.3	3.7	4.4	9.7	T	T
	63										3.5	4.2	9	T	T
iC60 N/H/L Curve C	**0.5**	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1	1.6	4.5	T	T	T	T	T	T	T	T	T	T	T	T
	1.6	0.8	1.7	5	T	T	T	T	T	T	T	T	T	T	T
	2	0.65	1.2	2.7	5.1	7.5	15	T	T	T	T	T	T	T	T
	3		1	1.9	3.3	4.5	8	T	T	T	T	T	T	T	T
	4		0.75	1	2	2.7	4	7.5	9.5	T	T	T	T	T	T
	6			0.8	1.5	2	2.7	4.5	7.2	8.5	T	T	T	T	T
	10			0.6	1.1	1.5	1.9	2.9	5.4	5	12	13	T	T	T
	13			0.55	0.9	1.4	1.7	2.5	3.5	4.2	9.5	9.9	T	T	T
	16				0.8	1.2	1.5	2.2	3	3.6	7.8	8	T	T	T
	20						1.3	1.8	2.5	3.1	6	6.5	T	T	T
	25							1.7	2.2	2.8	5.4	5.7	15	T	T
	32								2	2.6	4.5	4.9	11.7	T	T
	40									2.4	4	4.6	10.2	T	T
	50										3.7	4.4	9.7	T	T
	63											4.2	9	T	T
iC60 N/H/L Curve D	**0.5**	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	1	1.5	4.4	T	T	T	T	T	T	T	T	T	T	T	T
	1.6	0.7	1.7	4.9	T	T	T	T	T	T	T	T	T	T	T
	2	0.6	1.2	2.7	5	7.3	14.8	T	T	T	T	T	T	T	T
	3		0.9	1.9	3.3	4.5	8	T	T	T	T	T	T	T	T
	4		0.75	1	2	2.7	4	7.5	9.5	T	T	T	T	T	T
	6			0.8	1.5	2	2.7	4.5	7.2	8.5	T	T	T	T	T
	10			0.6	1.1	1.5	1.9	2.9	5.4	5	12	13	T	T	T
	13				0.9	1.4	1.7	2.5	3.5	4.2	9.5	9.9	T	T	T
	16					1.2	1.5	2.2	3	3.6	7.8	8	T	T	T
	20						1.3	1.8	2.5	3.1	6	6.5	T	T	T
	25							1.7	2.2	2.8	5.4	5.7	15	T	T
	32								2	2.6	4.5	4.9	11.7	T	T
	40									2.4	4	4.6	10.2	T	T
	50												9.7	T	T
	63													T	T

1.7 Selectivity limit (kA) = 1.7 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

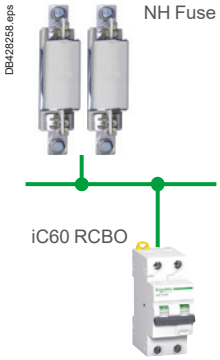
No selectivity.

See also guide CA908036 for Acti**9** and fuses coordination.

Selectivity tables with fuses

Upstream: fuses NH000/NH00/NH0/NH1
Downstream: iC60 RCBO curve B, C

Ue: 380-415 V Ph/Ph (220-240 V Ph/N)



Upstream		NH000/NH00/NH0/NH1													
	In (A)	16	20	25	32	35	40	50	63	80	100	125	160	200	250
Downstream	**Rating (A)**														
		Selectivity limit (kA)													
iC60 RCBO Curves B, C	**10**		0.6	0.75	0.9	1.2	1.3	1.85	2.1	2.9	5.1	T	T	T	T
	13			0.65	0.85	1.1	1.25	1.8	2.05	2.8	5	T	T	T	T
	16			0.6	0.75	1	1.1	1.7	2	2.7	4.8	5.5	T	T	T
	20				0.6	0.85	1	1.4	1.7	2.3	4.3	5.3	T	T	T
	25					0.75	0.9	1.3	1.6	2.1	3.9	5	T	T	T
	32						0.85	1.2	1.45	2	3.8	4.8	T	T	T

1.7 Selectivity limit (kA) = 2.6 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

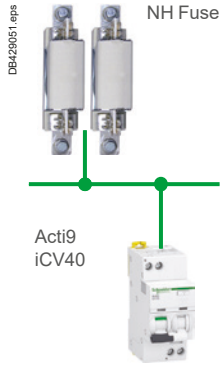
No selectivity.

See also guide CA908036 for Acti**9** and fuses coordination.

Selectivity tables with fuses

Upstream: fuses NH000/NH00/NH0/NH1
Downstream: Acti9 iC40, iC40N, iCV40, iCV40N/H

Ue: 380-415 V Ph/Ph (220-240 V Ph/N)



Upstream		NH000/NH00/NH0/NH1													
	In (A)	16	20	25	32	35	40	50	63	80	100	125	160	200	250
Downstream	**Rating (A)**														
		Selectivity limit (kA)													
Acti9 iC40 **Acti9 iC40 N** **Acti9 iCV40** **Acti9 iCV40 N** **Acti9 iCV40 H** Curve B	**1**	2	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	0.5	0.8	2.5	T	T	T	T	T	T	T	T	T	T	T
	3		0.6	1.2	2.6	5	T	T	T	T	T	T	T	T	T
	4		0.5	1.05	2	4	5	T	T	T	T	T	T	T	T
	6			1	1.4	2.5	3.5	4.7	8.5	T	T	T	T	T	T
	10			0.75	1.1	2	2.5	3.1	3.6	5.4	T	T	T	T	T
	13			0.7	1	1.8	2	2.7	3	5	T	T	T	T	T
	16			0.6	0.9	1.55	1.7	2.2	3	4.4	T	T	T	T	T
	20				0.8	1.4	1.6	2	2.45	3.5	T	T	T	T	T
	25					1.2	1.4	1.7	2.35	3.3	8	T	T	T	T
	32							1.5	2.3	3.2	7.5	T	T	T	T
	40									2.9	6.6	T	T	T	T
Acti9 iC40 **Acti9 iC40 N** **Acti9 iCV40** **Acti9 iCV40 N** **Acti9 iCV40 H** Curve C	**1**	2	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	0.5	0.8	2.5	T	T	T	T	T	T	T	T	T	T	T
	3		0.6	1.2	2.6	5	T	T	T	T	T	T	T	T	T
	4		0.5	1.05	2	4	5	T	T	T	T	T	T	T	T
	6			0.9	1.4	2.5	3.5	4.65	8.5	T	T	T	T	T	T
	10			0.375	1.025	1.8	2.5	2.8	3.6	5.4	T	T	T	T	T
	13					1.5	2	2.2	3	5	T	T	T	T	T
	16					0.775	1.7	2	3	4.4	T	T	T	T	T
	20						1.6	1.875	2.45	3.5	T	T	T	T	T
	25							0.85	2.35	3.3	8	T	T	T	T
	32								2.3	3.2	7.5	T	T	T	T
	40										6.6	T	T	T	T
Acti9 iC40 **Acti9 iC40 N** Curve D	**1**	2	T	T	T	T	T	T	T	T	T	T	T	T	T
	2	0.5	0.8	2.5	T	T	T	T	T	T	T	T	T	T	T
	3		0.6	1.2	2.6	5	T	T	T	T	T	T	T	T	T
	4		0.5	1.05	2	4	5	T	T	T	T	T	T	T	T
	6			0.8	1.4	2.5	3.5	4.6	8.5	T	T	T	T	T	T
	10				0.95	1.6	2.5	2.5	3.6	5.4	T	T	T	T	T
	13						2	2.1	3	5	T	T	T	T	T
	16						1.7	1.8	3	4.4	T	T	T	T	T
	20							1.75	2.45	3.5	T	T	T	T	T
	25								2.35	3.3	8	T	T	T	T
	32									3.2	7.5	T	T	T	T
	40										6.6	T	T	T	T

2.6 Selectivity limit (kA) = 2.6 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

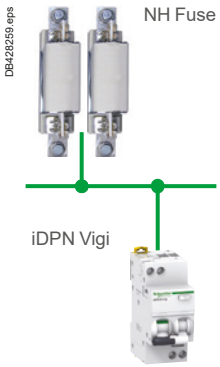
See also guide CA908036 for Acti**9** and fuses coordination.

Selectivity tables with fuses

Upstream: fuses NH000/NH00/NH0/NH1
Downstream: iDPN N Vigi, iDPN H Vigi

A

Ue: 380-415 V Ph/Ph
(220-240 V Ph/N)



Upstream		NH000/NH00/NH0/NH1													
	In (A)	16	20	25	32	35	40	50	63	80	100	125	160	200	250
Downstream	**Rating (A)**														
		Selectivity limit (kA)													
iDPN N Vigi	**1**	2	T	T	T	T	T	T	T	T	T	T	T	T	T
iDPN H Vigi	**2**	0.5	0.8	2.5	T	T	T	T	T	T	T	T	T	T	T
1P+N	**3**		0.6	1.2	2.6	5	T	T	T	T	T	T	T	T	T
Curve B	**4**		0.5	1.05	2	4	5	T	T	T	T	T	T	T	T
	6			1	1.4	2.5	3.5	4.7	8.5	T	T	T	T	T	T
	10			0.75	1.1	2	2.5	3.1	3.6	5.4	T	T	T	T	T
	13			0.7	1	1.8	2	2.7	3	5	T	T	T	T	T
	16			0.6	0.9	1.55	1.7	2.2	3	4.4	T	T	T	T	T
	20				0.8	1.4	1.6	2	2.45	3.5	T	T	T	T	T
	25					1.2	1.4	1.7	2.35	3.3	8	T	T	T	T
	32							1.5	2.3	3.2	7.5	T	T	T	T
	40									2.9	6.6	T	T	T	T
iDPN N Vigi	**1**	2	T	T	T	T	T	T	T	T	T	T	T	T	T
iDPN H Vigi	**2**	0.5	0.8	2.5	T	T	T	T	T	T	T	T	T	T	T
1P+N	**3**		0.6	1.2	2.6	5	T	T	T	T	T	T	T	T	T
Curve C	**4**		0.5	1.05	2	4	5	T	T	T	T	T	T	T	T
	6			0.9	1.4	2.5	3.5	4.65	8.5	T	T	T	T	T	T
	10			0.375	1.025	1.8	2.5	2.8	3.6	5.4	T	T	T	T	T
	13					1.5	2	2.2	3	5	T	T	T	T	T
	16					0.775	1.7	2	3	4.4	T	T	T	T	T
	20						1.6	1.875	2.45	3.5	T	T	T	T	T
	25							0.85	2.35	3.3	8	T	T	T	T
	32								2.3	3.2	7.5	T	T	T	T
	40										6.6	T	T	T	T
iDPN N Vigi	**1**	2	T	T	T	T	T	T	T	T	T	T	T	T	T
iDPN H Vigi	**2**	0.5	0.8	2.5	T	T	T	T	T	T	T	T	T	T	T
1P+N	**3**		0.6	1.2	2.6	5	T	T	T	T	T	T	T	T	T
Curve D	**4**		0.5	1.05	2	4	5	T	T	T	T	T	T	T	T
	6			0.8	1.4	2.5	3.5	4.6	8.5	T	T	T	T	T	T
	10				0.95	1.6	2.5	2.5	3.6	5.4	T	T	T	T	T
	13						2	2.1	3	5	T	T	T	T	T
	16						1.7	1.8	3	4.4	T	T	T	T	T
	20							1.75	2.45	3.5	T	T	T	T	T
	25								2.35	3.3	8	T	T	T	T
	32									3.2	7.5	T	T	T	T
	40										6.6	T	T	T	T

2.6 Selectivity limit (kA) = 2.6 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

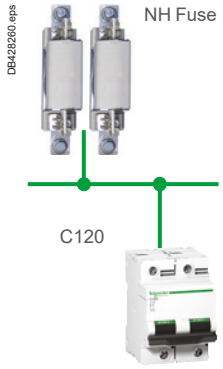
No selectivity.

See also guide CA908036 for Acti**9** and fuses coordination.

Selectivity tables with fuses

Upstream: fuses NH000/NH00/NH0/NH1
Downstream: C120N/H and NG125N/H/L curve B, C, D

Ue: 380-415 V Ph/Ph
(220-240 V Ph/N)



Upstream		NH000/NH00/NH0/NH1											
	In (A)	25	32	35	40	50	63	80	100	125	160	200	250
Downstream	**Rating (A)**												
		Selectivity limit (kA)											
C120 N/H **NG125 N/H/L** Curve B	**10**		0.75	0.95	1.1	1.6	1.9	2.7	5.5	7.5	18.5	T	T
	16		0.55	0.8	0.95	1.4	1.7	2.3	4.6	7	12.5	T	T
	20				0.9	1.35	1.65	2.2	4.5	6.5	12	22.5	T
	25					1.15	1.45	2.05	3.8	5.8	9.5	13.5	T
	32					1.1	1.4	2	3.7	5	9	13	T
	40						1.35	1.85	3.4	4.8	7.6	10.5	T
	50								3.25	4.7	7.2	9.5	T
	63								3	4.5	7	9.3	T
	80									4.2	6.2	8.2	T
	100											7.7	T
	125											7.5	T
C120 N/H **NG125 N/H/L** Curve C	**10**		0.75	0.95	1.1	1.6	1.9	2.7	5.5	7.5	18.5	T	T
	16		0.55	0.8	0.95	1.4	1.7	2.3	4.6	7	12.5	T	T
	20				0.9	1.35	1.65	2.2	4.5	6.5	12	22.5	T
	25					1.15	1.45	2.05	3.8	5.8	9.5	13.5	T
	32						1.4	2	3.7	5	9	13	T
	40							1.85	3.4	4.8	7.6	10.5	T
	50								3.25	4.7	7.2	9.5	T
	63									4.5	7	9.3	T
	80											8.2	T
	100											7.7	T
	125												T
C120 N/H **NG125 N/H/L** Curve D	**10**		0.75	0.95	1.1	1.6	1.9	2.7	5.5	7.5	18.5	T	T
	16				0.95	1.4	1.7	2.3	4.6	7	12.5	T	T
	20					1.35	1.65	2.2	4.5	6.5	12	22.5	T
	25						1.45	2.05	3.8	5.8	9.5	13.5	T
	32							2	3.7	5	9	13	T
	40								3.4	4.8	7.6	10.5	T
	50									4.7	7.2	9.5	T
	63										7	9.3	T
	80											8.2	T
	100												T
	125												T

1.4 Selectivity limit (kA) = 1.4 kA.

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

See also guide CA908036 for Acti**9** and fuses coordination.

Selectivity tables with fuses

Upstream: Fu**Pact** (gG fuse-link)
Downstream: Com**Pact** NSXm, NSX100 to 630

A

Ue ⩽ 440 V AC

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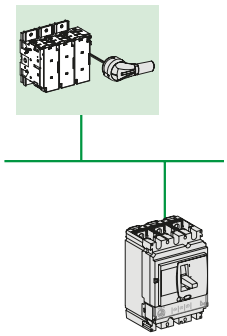


Upstream	gG fuse																
Downstream	**Rating (A)**	**160**	**200**	**250**	**315**	**355**	**400**	**450**	**500**	**560**	**630**	**670**	**710**	**750**	**800**	**1000**	**1250**
ComPact NSXm	**16**	0.5	5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
E/B/F/N/H	**25**	0.5	5	30	T	T	T	T	T	T	T	T	T	T	T	T	T
TM-D	**32**	0.5	5	20	T	T	T	T	T	T	T	T	T	T	T	T	T
	40	0.5	5	20	30	T	T	T	T	T	T	T	T	T	T	T	T
	50	0.5	5	15	30	T	T	T	T	T	T	T	T	T	T	T	T
	63	0.5	5	10	30	T	T	T	T	T	T	T	T	T	T	T	T
	80		5	10	25	T	T	T	T	T	T	T	T	T	T	T	T
	100			7	20	T	T	T	T	T	T	T	T	T	T	T	T
	125					T	T	T	T	T	T	T	T	T	T	T	T
	160					T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSXm	**25**	0.375	5	20	30	T	T	T	T	T	T	T	T	T	T	T	T
E/B/F/N/H	**50**	0.375	5	15	30	T	T	T	T	T	T	T	T	T	T	T	T
MicroLogic 4.1	**100**			10	30	T	T	T	T	T	T	T	T	T	T	T	T
	160					T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX100	**16**	2.5	4	7	15	T	T	T	T	T	T	T	T	T	T	T	T
TM-D	**25**	2.5	4	7	15	T	T	T	T	T	T	T	T	T	T	T	T
	32	2.5	4	7	15	T	T	T	T	T	T	T	T	T	T	T	T
	40	2.5	4	7	15	T	T	T	T	T	T	T	T	T	T	T	T
	50	2.5	4	7	15	T	T	T	T	T	T	T	T	T	T	T	T
	63	2.5	4	7	15	T	T	T	T	T	T	T	T	T	T	T	T
	80		4	7	15	T	T	T	T	T	T	T	T	T	T	T	T
	100			7	15	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160	**⩽ 63**			7	15	T	T	T	T	T	T	T	T	T	T	T	T
TM-D	**80**			7	15	T	T	T	T	T	T	T	T	T	T	T	T
	100					T	T	T	T	T	T	T	T	T	T	T	T
	125						T	T	T	T	T	T	T	T	T	T	T
	160						T	T	T	T	T	T	T	T	T	T	T
ComPact NSX250	**⩽ 100**						T	T	T	T	T	T	T	T	T	T	T
TM-D	**125**						T	T	T	T	T	T	T	T	T	T	T
	160						T	T	T	T	T	T	T	T	T	T	T
	200							T	T	T	T	T	T	T	T	T	T
	250							T	T	T	T	T	T	T	T	T	T
ComPact NSX100	**40**			4	10	T	T	T	T	T	T	T	T	T	T	T	T
MicroLogic	**100**			4	10	T	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX160	**40**				7	8	T	T	T	T	T	T	T	T	T	T	T
MicroLogic	**100**				7	8	T	T	T	T	T	T	T	T	T	T	T
	160				7	8	T	T	T	T	T	T	T	T	T	T	T
ComPact NSX250	**100**						10	T	T	T	T	T	T	T	T	T	T
MicroLogic	**160**						10	T	T	T	T	T	T	T	T	T	T
	250							T	T	T	T	T	T	T	T	T	T
ComPact NSX400	**160**								6	7	9	10	T	T	T	T	T
MicroLogic	**200**								6	7	9	10	T	T	T	T	T
	250								6	7	9	10	T	T	T	T	T
	320								6	7	9	10	T	T	T	T	T
	400								6	7	9	10	T	T	T	T	T
ComPact NSX630	**400**												12	15	30	T	T
MicroLogic	**630**												12	15	30	T	T

16 Selectivity limit in kA

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Cascading (or Back-up protection, or Combined short-circuit protection)

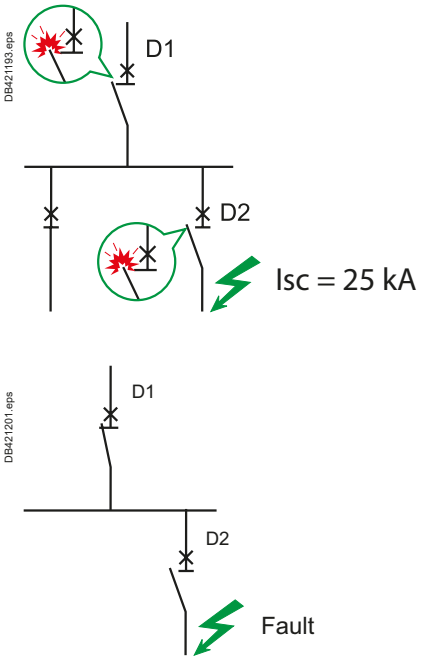
Cascading is the legacy name used by Schneider Electric.

Product standards such as IEC/EN 60947, 60898, 61009-1 call this performance of two circuit-breakers "back-up protection".

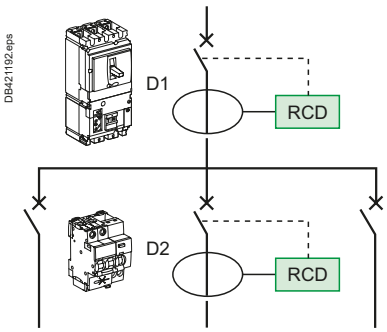
Low voltage Electrical installation standard IEC 60364 serie and in particular IEC 60364-5-53 (2019) Clause 535.5 use the wording "Combined short-circuit protection".

In this document we'll keep "Cascading" but the three wordings are equivalent.

In North America and UL standards this performance is known as "Series rating".



D1 and D2 in series.



IEC 60947-2, Annex A
IEC 60364-4-43 (2008) § 434.5.1

What is cascading?

Cascading is the use of the current limiting capacity of circuit breakers at a given point to permit installation of lower-rated and therefore lower-cost circuit breakers downstream.
The upstream ComPact circuit breakers acts as a barrier against short-circuit currents. In this way, downstream circuit breakers with lower breaking capacities than the prospective short-circuit (at their point of installation) operate under their normal breaking conditions.
Since the current is limited throughout the circuit controlled by the limiting circuit breaker, cascading applies to all switchgear downstream. It is not restricted to two consecutive devices.

General use of cascading

With cascading, the devices can be installed in different switchboards. Thus, in general, cascading refers to any combination of circuit breakers where a circuit breaker with a breaking capacity less than the prospective Isc at its point of installation can be used. Of course, the breaking capacity of the upstream circuit breaker must be greater than or equal to the prospective short-circuit current at its point of installation.
The combination of two circuit breakers in cascading configuration is covered by the following standards of:

- design and manufacture of circuit breakers (IEC 60947-2, Annex A),
- electrical distribution networks (IEC 60364-4-43 Ed 3 2008 § 434.5.1).

Coordination between circuit breakers

The use of a protective device possessing a breaking capacity less than the prospective short-circuit current at its installation point is permitted as long as another device is installed upstream with at least the necessary breaking capacity. In this case, the characteristics of the two devices must be coordinated in such a way that the energy let through by the upstream device is not more than that which can be withstood by the downstream device and the cables protected by these devices without damage.
Cascading can only be checked by laboratory tests and the possible combinations can be specified only by the circuit breaker manufacturer.

Cascading and protection selectivity

In cascading configurations, due to the Roto-active breaking technique, selectivity is maintained and, in some cases, even enhanced. Consult the enhanced selectivity tables on page A-176 for data on selectivity limits.

Cascading tables

Schneider Electric cascading tables are:

- drawn up on the basis of calculations (comparison between the energy limited by the upstream device and the maximum permissible thermal stress for the downstream device)
- verified experimentally in accordance with IEC standard 60947-2.

For 50/60 Hz distribution systems with 220-240 V, 380-415 V and 440 V between phases, the tables of the following pages indicate cascading possibilities between upstream ComPact and downstream Acti **9** and ComPact circuit breakers as well as between upstream MasterPact and downstream ComPact circuit breakers.

Circuit breaker with Vigi module (Add-On Residual Current Device - RCD):
When circuit breakers are equipped with Vigi module, the following cascading tables are still applicable.

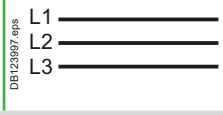
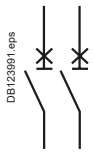
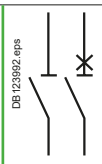
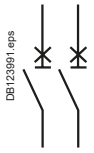
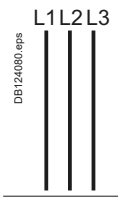
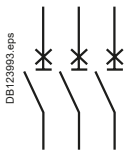
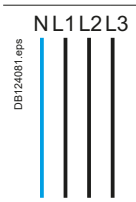
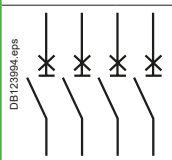
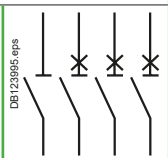
How to use the table
The reinforced breaking capacity given in the table shall be compared to the presumed short-circuit current (rms value) at the point of installation without taking in consideration the limitation effect of the upstream circuit-breaker.

Cascading

Using the cascading tables

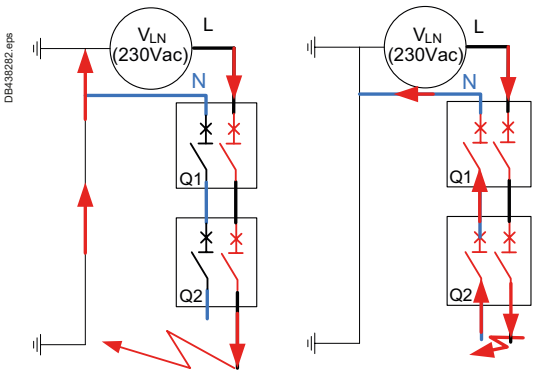
The following cascading tables takes in account all types of faults: between phases, phase and neutral, phase and earth in all earthing systems. In IT the following cascading tables can not be used to evaluate performances in case of "double fault" between two different phases and earth in two different locations of the installation. Each breaker shall comply to IEC60947-2 Annex H to be used in such a system.
Depending on the network and the type of downstream circuit breaker, the selection table below indicates which table should be consulted to find out the reinforced breaking capacity thanks to cascading.

Selection table

		Upstream network					
							
Type of Downstream network	**Type of Downstream protection device**	**Type of circuit breaker upstream device: 1P, 2P, 3P or 4P circuit breaker**					
		Ph/N 110-130 V	**Ph/N 220-240 V**	**Ph/N 110-130 V** **Ph/Ph 220-240 V**	**Ph/N 220-240 V** **Ph/Ph 380-415 V**	**Ph/Ph 220-240 V**	**Ph/Ph 380-415 V**
	 2P	See table Ue: 220-240 V	**[1]** See table Ue: 380-415 V	See table Ue: 220-240 V	**[1]** See table Ue: 380-415 V		
	 1P  1P + N	See table Ue: 220-240 V	**[1]** See table Ue: 380-415 V	See table Ue: 220-240 V	**[1]** See table Ue: 380-415 V		
	 2P			See table Ue: 220-240 V	See table Ue: 380-415 V	See table Ue: 220-240 V	See table Ue: 380-415 V
	 3P			See table Ue: 220-240 V	See table Ue: 380-415 V	See table Ue: 220-240 V	See table Ue: 380-415 V
	 4P			See table Ue: 220-240 V	See table Ue: 380-415 V		
	 3P  3P+N			See table Ue: 220-240 V	See table Ue: 380-415 V		

[1] Values provided in Tables Ue: 220-240 V AC can be used to check reinforced breaking capacity of a circuit-breaker protecting 220-240 V AC single phase circuit in case of Line to Neutral fault (i.e: Reinforced breaking capacity from table Ue: 220-240 V AC ≥ Ik1) provided that:
- Upstream circuit-breaker is a 4P or 2P or Acti9 iC60 1P+N, and
- Downstream circuit-breaker is a 2P or an Acti9 iC60 1P+N

In all cases for 220-240 V AC Single phase application, tables Ue: 380-415 V AC shall be used to check breaking capacity in case of line to earth Fault (i.e. Reinforced breaking capacity Ue: 380-415 V AC ≥ If).
See the difference between the Line to Earth fault and Line to Neutral fault below.



Line to Earth Fault (If)

Line to Neutral Fault (Ik1)

Difference between Line to Neutral and Line to earth fault regarding cascading

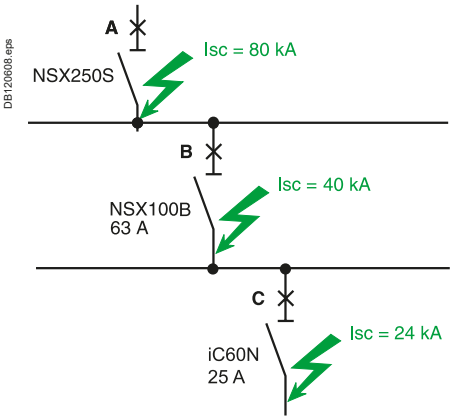
The number of poles breaking the current is different in case of line to neutral fault and line to earth fault.

The reinforced breaking capacity published in tables for a given "Line to Line" system voltage apply to all type of faults including line to earth.

Application of cascading

Both "Industrial" circuit-breaker standard (IEC/EN 60947) and "residential" circuit-breaker standards (IEC/EN 60898 & 61009) define and provide test method for this "cascading" performance.

Anyway Schneider Electric doesn't recommend to apply cascading in installation used by uninstructed persons. The following tables are therefore providing a "reinforced breaking capacity" according to IEC 60947-2 Annex A.



Three level cascading

Consider three circuit breakers A, B and C connected in series. The criteria for cascading are fulfilled in the following two cases:

- the upstream device A is coordinated for cascading with both devices B and C (even if the cascading criteria are not fulfilled between B and C). It is simply necessary to check that the combinations A + B and A + C have the required breaking capacity
- each pair of successive devices is coordinated, i.e. A with B and B with C (even if the cascading criteria are not fulfilled between A and C). It is simply necessary to check that the combinations A + B and B + C have the required breaking capacity.

Example: the upstream breaker A is a NSX250S (breaking capacity 100 kA) for a prospective Isc of 80 kA across its output terminals.
A NSX100B (breaking capacity 25 kA) can be used for circuit breaker B for a prospective Isc of 40 kA across its output terminals, since the "reinforced" breaking capacity provided by cascading with the upstream NSX250S is 50 kA.
A iC60N (breaking capacity 10 kA) can be used for circuit breaker C for a prospective Isc of 24 kA across its output terminals since the "reinforced" breaking capacity provided by cascading with the upstream NSX250S is 30 kA.
Note that the "reinforced" breaking capacity of the iC60N with the NSX100B upstream is only 20 kA, but:

- A + B = 50 kA
- A + C = 30 kA.

Cascading tables

Contents

A

Downstream	Upstream							
Type	**iDPN, iC40**	**iC60**	**C120**	**NG125**	**ComPact NSXm**	**ComPact NSX100**	**ComPact NSX160**	**ComPact NSX250**
380-415 V (Ph/N 220-240 V)								
iDPN, iC40	page A-164	page A-164	page A-164	page A-164	page A-164	page A-164	page A-165	page A-165
iC60	-	page A-164	page A-164	page A-164	page A-164	page A-164	page A-165	page A-165
C120	-	-	page A-164	page A-164	page A-164	page A-164	page A-165	page A-165
NG125	-	-	-	page A-164	page A-164	page A-164	page A-165	page A-165
ComPact NSXm	-	-	-	-	page A-164	page A-164	page A-165	page A-165
ComPact NSX100	-	-	-	-	-	page A-164	page A-165	page A-165
ComPact NSX160	-	-	-	-	-	-	page A-165	page A-165
ComPact NSX250	-	-	-	-	-	-	-	page A-165
440 V								
iC60	-	page A-168	-	page A-168	page A-168	page A-168	page A-169	-
NG125	-	-	-	page A-168	page A-168	page A-168	page A-169	page A-169
ComPact NSXm	-	-	-	-	page A-168	page A-168	page A-169	page A-169
ComPact NSX100	-	-	-	-	-	page A-168	page A-169	page A-169
ComPact NSX160	-	-	-	-	-	-	page A-169	page A-169
ComPact NSX250	-	-	-	-	-	-	-	page A-169
220-240 V (Ph/N 110-130 V)								
iDPN	-	page A-172	page A-172	page A-172	page A-172	page A-172	page A-173	page A-173
iC60	-	page A-172	page A-172	page A-172	page A-172	page A-172	page A-173	page A-173
C120	-	-	page A-172	page A-172	page A-172	page A-172	page A-173	page A-173
NG125	-	-	-	page A-172	page A-172	page A-172	page A-173	page A-173
ComPact NSXm	-	-	-	-	page A-172	page A-172	page A-173	page A-173
ComPact NSX100	-	-	-	-	-	page A-172	page A-173	page A-173
ComPact NSX160	-	-	-	-	-	-	page A-173	page A-173
ComPact NSX250	-	-	-	-	-	-	-	page A-173

Selectivity enhanced by cascading

Downstream	Upstream			
Type	**ComPact NSXm**	**ComPact NSX100**	**ComPact NSX160**	**ComPact NSX250**
380-415 V (Ph/N 220-240 V)				
iC60	page A-177	page A-177	page A-179-A-180	pageA-179-A-180
C120	-	-	-	pageA-179-A-180
NG125	-	-	-	pageA-179-A-180
ComPact NSXm	-	-	-	pageA-179-A-180
ComPact NSX100	-	-	-	pageA-179-A-180
440 V				
ComPact NSXm	-	-	-	pageA-185-A-186
iC60	page A-183	page A-183	page A-185-A-186	-
NG125	-	-	page A-185-A-186	pageA-185-A-186
ComPact NSX100	-	-	-	pageA-185-A-186
220-240 V (Ph/N 110-130 V)				
iC60	-	page A-190	page A-189-A-190	pageA-189-A-190
C120	-	-	-	pageA-189-A-190
NG125	-	-	page A-189	pageA-189-A-190
ComPact NSXm	-	-	-	pageA-191-A-192
ComPact NSX100	-	-	-	pageA-191-A-192

Cascading tables

Contents

Downstream	Upstream				
Type	**ComPact NSX400**	**ComPact NSX630**	**ComPact NS630b**	**ComPact NS800 to 3200 H/L**	**MasterPact MTZ**
380-415 V (Ph/N 220-240 V)					
ComPact NSXm	page A-166	page A-166	page A-167	-	-
ComPact NSX100	page A-166	page A-166	page A-167	page A-167	page A-167
ComPact NSX160	page A-166	page A-166	page A-167	page A-167	page A-167
ComPact NSX250	page A-166	page A-166	page A-167	page A-167	page A-167
ComPact NSX400	page A-166	page A-166	page A-167	page A-167	page A-167
ComPact NSX630	-	page A-166	page A-167	page A-167	page A-167
ComPact NS630b	-	-	page A-167	page A-167	page A-167
ComPact NS800	-	-	page A-167	page A-167	page A-167
ComPact NS1000	-	-	page A-167	page A-167	page A-167
ComPact NS1250	-	-	page A-167	page A-167	page A-167
ComPact NS1600	-	-	page A-167	page A-167	page A-167
440 V					
ComPact NSXm	page A-170	page A-170	-	-	-
ComPact NSX100	page A-170	page A-170	page A-171	page A-171	page A-171
ComPact NSX160	page A-170	page A-170	page A-171	page A-171	page A-171
ComPact NSX250	page A-170	page A-170	page A-171	page A-171	page A-171
ComPact NSX400	page A-170	page A-170	page A-171	page A-171	page A-171
ComPact NSX630	-	page A-170	page A-171	page A-171	page A-171
ComPact NS630b	-	-	page A-171	page A-171	page A-171
ComPact NS800	-	-	page A-171	page A-171	page A-171
ComPact NS1000	-	-	page A-171	page A-171	page A-171
ComPact NS1250	-	-	page A-171	page A-171	page A-171
ComPact NS1600	-	-	page A-171	page A-171	page A-171
220-240 V (Ph/N 110-130 V)					
ComPact NSXm	page A-174	page A-174	-	-	-
ComPact NSX100	page A-174	page A-174	page A-175	page A-175	page A-175
ComPact NSX160	page A-174	page A-174	page A-175	page A-175	page A-175
ComPact NSX250	page A-174	page A-174	page A-175	page A-175	page A-175
ComPact NSX400	page A-174	page A-174	page A-175	page A-175	page A-175
ComPact NSX630	-	page A-174	page A-175	page A-175	page A-175
ComPact NSX630b			page A-175	page A-175	page A-175

Selectivity enhanced by cascading

Downstream	Upstream					
Type	**ComPact NSX400**	**ComPact NSX630**	**ComPact NS800**	**ComPact NS1000**	**ComPact NS1250**	**ComPact NS1600**
380-415 V (Ph/N 220-240 V)						
ComPact NSXm	page A-181	page A-181	-	-	-	-
ComPact NSX100	page A-181	page A-181	page A-182	page A-182	page A-182	page A-182
ComPact NSX160	page A-181	page A-181	page A-182	page A-182	page A-182	page A-182
ComPact NSX250	-	page A-181	page A-182	page A-182	page A-182	page A-182
ComPact NSX400	-	-	page A-182	page A-182	page A-182	page A-182
ComPact NSX630	-	-	page A-182	page A-182	page A-182	page A-182
440 V						
ComPact NSXm	page A-187	page A-187	-	-	-	-
ComPact NSX100	page A-187	page A-187	page A-188	page A-188	page A-188	page A-188
ComPact NSX160	page A-187	page A-187	page A-188	page A-188	page A-188	page A-188
ComPact NSX250	page A-187	page A-187	page A-188	page A-188	page A-188	page A-188
ComPact NSX400	-	-	page A-188	page A-188	page A-188	page A-188
ComPact NSX630	-	-	page A-188	page A-188	page A-188	page A-188
220-240 V (Ph/N 110-130 V)						
ComPact NSXm	page A-192	page A-192	-	-	-	-
ComPact NSX100	page A-192	page A-192	page A-192	page A-192	-	-
ComPact NSX160	page A-192	page A-192	page A-192	page A-192	-	-
ComPact NSX250	-	page A-192	page A-192	page A-192	-	-
ComPact NSX400	-	page A-192	page A-192	page A-192	-	-
ComPact NSX630	-	-	-	page A-192	-	-

Cascading

Upstream: iDPN, iC40, iC60, C120, NG125, ComPact NSXm, NSX100
Downstream: iDPN, iC40, iCV40, iC60, C120, NG125, ComPact NSXm, NSX100

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream CB			iDPN	iC40	iC60					iC120		NG125		
			N	N	N	H	L			N	H	N	H	L
							⩽ 25 A	32/40 A	50/63 A					
		Icu (kA)	10	10	10	15	25	20	15	10	15	25	36	50

Downstream CB			Reinforced breaking capacity (kA) according to IEC/EN 60947-2 Annex A											
	Rating (A)	Icu (kA) (Icn (A))												
iDPN[1]	1-16	6	10	10	10	10	20	15	10	10	10	10	16	20
	25-40	6	10	10	10	10	15	10	10	10	10	10	16	20
iDPN N[1]	1-16	10				15	25	20	15		15	20	20	25
	25-40	10				15	20	15	15		15	16	20	25
iC40[1]	2-16	4500/6	10	10	10	10	20	15	10	10	10	10	16	20
	20-40	4500/6	10	10	10	10	15	10	10	10	10	10	16	16
iCV40 N	6-16	6000				15	25	20	15		15	20	20	25
[1]	20-40	6000				15	20	15	15		15	16	16	20
iC40 N[1]	2-16	6000/10	10	10	10	15	25	20	15		15	20	20	25
	20-40	6000/10	10	10	10	15	20	15	15		15	16	16	20
iCV40 H	6-16	10000				15	25	20	15		15	20	20	25
[1]	20-32	10000				15	20	15	15		15	16	16	20
iC60 RCBO	6-32A	6000	10	10	10	15	25	20	15		15	25	25	25
iC60 N	0.5-25	10				15	25	20	15		15	25	25	25
	32-40	10				15		20	15		15	25	25	25
	50-63	10				15			15		15	25	25	25
iC60 H	0.5-25	15					25	20				25	36	36
	32-40	15						20				25	36	36
	50-63	15										25	36	36
iC60 L	0.5-25	25											36	50
	32-40	20										25	36	50
	50-63	15										25	36	36
C120 N	63-125	10									15	25	25	36
C120 H	63-125	15										25	25	36
NG125 N	1-125	25											36	36
NG125 H	1-125	36												50

Upstream CB			NSXm					NSX100					
			E	B	F	N	H	B	F	N	H	S	L
		Icu (kA)	16	25	36	50	70	25	36	50	70	100	150

Downstream CB			Reinforced breaking capacity (kA) according to IEC/EN 60947-2 Annex A										
	Rating (A)	Icu (kA) (Icn (A))											
iDPN [1]	1-40	6	10	10	10	10	10	10	10	10	10	10	10
iDPN N [1]	1-16	10	16	20	20	20	20	20	20	20	20	20	20
	25-40	10	16	16	16	16	16	16	16	16	16	16	16
iC40 [1]	2-40	4500/6	10	10	10	10	10	10	10	10	10	10	10
iC40 N [1]	2-16	6000/10	16	20	20	20	20	20	20	20	20	20	20
	20-40	6000/10	16	16	16	16	16	16	16	16	16	16	16
iCV40 N [1]	6-16	6000	16	20	20	20	20	20	20	20	20	20	20
	20-32	6000	16	16	16	16	16	16	16	16	16	16	16
iCV40 H [1]	6-16	10000	16	20	20	20	20	20	20	20	20	20	20
	20-32	10000	16	16	16	16	16	16	16	16	16	16	16
iC60 RCBO	6-32	6000	16	20	20	20	20	20	20	20	20	20	20
iC60 N	0.5-40	10	16	20	25	30	30	20	25	30	30	30	30
	50-63	10	16	20	25	30	30	20	25	30	30	30	30
iC60 H	0.5-40	15	16	25	36	36	36	25	36	40	40	40	40
	50-63	15	16	25	36	36	36	25	36	40	40	40	40
iC60 L	0.5-25	25			36	36	36		36	40	40	40	40
	32-40	20		25	36	36	36	25	36	40	40	40	40
	50-63	15	16	25	36	36	36	25	36	40	40	40	40
C120 N	63-125	10	16	25	25	25	25	25	25	25	25	25	25
C120 H	63-125	15	16	25	25	25	25	25	25	25	25	25	25
NG125 N	1-125	25			36	36	36		36	36	36	50	70
NG125 H	1-125	36				40	50			40	50	70	100
NG125 L	1-80	50					70				70	100	150
NSXm E	16-160	16		25	30	30	30	25	25	30	30	30	30
NSXm B	16-160	25			36	36	50		36	36	50	50	50
NSXm F	16-160	36				50	70			50	70	70	70
NSXm N	16-160	50					70				70	70	70
NSXm H	16-160	70											
NSX100 B	16-100	25							36	36	50	50	50
NSX100 F	16-100	36								50	70	100	150
NSX100 N	16-100	50									70	100	150
NSX100 H	16-100	70										100	150
NSX100 S	16-100	100											150

[1] 230 V phase to neutral

Cascading table

Upstream: Com**Pact** NSX160, NSX250
Downstream: iDPN, iC40, iCV40, iC60, C120, NG125, Com**Pact** NSXm, NSX100, NSX160, NSX250

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream CB			NSX160						NSX250					
			B	F	N	H	S	L	B	F	N	H	S	L
		Icu (kA)	25	36	50	70	100	150	25	36	50	70	100	150
Downstream CB			Reinforced breaking capacity (kA) according to IEC/EN 60947-2 Annex A											
	Rating (A)	Icu (kA)												
iDPN[1]	1-40	6	10	10	10	10	10	10	10	10	10	10	10	10
iDPN N[1]	1-16	10	20	20	20	20	20	20	20	20	20	20	20	20
	25-40	10	16	16	16	16	16	16	16	16	16	16	16	16
iC40[1]	2-40	4500/6	10	10	10	10	10	10	10	10	10	10	10	10
iC40N [1]	2-16	6000/10	20	20	20	20	20	20	20	20	20	20	20	20
	20-40	6000/10	16	16	16	16	16	16	16	16	16	16	16	16
iCV40 N [1]	6-16	6000	20	20	20	20	20	20	20	20	20	20	20	20
	20-32	6000	16	16	16	16	16	16	16	16	16	16	16	16
iCV40 H[1]	6-16	10000	20	20	20	20	20	20	20	20	20	20	20	20
	20-32	10000	16	16	16	16	16	16	16	16	16	16	16	16
iC60	6-20	6000	20	20	20	20	20	20	20	20	20	20	20	20
RCB0	25-32	6000	16	16	16	16	16	16	16	16	16	16	16	16
iC60 N	0.5-40	10	20	25	30	30	30	30	20	25	30	30	30	30
	50-63	10	20	25	30	30	30	30	20	25	25	25	25	25
iC60 H	0.5-40	15	25	36	40	40	40	40	25	30	30	30	30	30
	50-63	15	25	36	36	36	36	36	25	25	25	25	25	25
iC60 L	0.5-25	25	25	36	40	40	40	40	25	30	30	30	30	30
	32-40	20	25	36	40	40	40	40	25	30	30	30	30	30
	50-63	15	25	36	36	36	36	36	25	25	25	25	25	25
C120 N	63-125	10	25	25	25	25	25	25	25	25	25	25	25	25
C120 H	63-125	15	25	25	25	25	25	25	25	25	25	25	25	25
NG125 N	1-125	25		36	36	36	50	70		36	36	36	50	70
NG125 H	1-125	36			40	50	70	100			40	50	70	100
NG125 L	1-80	50			50	70	100	150			50	70	100	150
NSXm E	16-160	16	25	25	30	30	30	30	25	25	30	30	30	30
NSXm B	16-160	25		36	36	50	50	50		36	36	50	50	50
NSXm F	16-160	36			50	70	70	70			50	70	70	70
NSXm N	16-160	50				70	70	70				70	70	70
NSXm H	16-160	70												
NSX100 B	16-100	25		36	36	50	50	50		36	36	50	50	50
NSX100 F	16-100	36			50	70	100	150			50	70	100	150
NSX100 N	16-100	50				70	100	150				70	100	150
NSX100 H	16-100	70					100	150					100	150
NSX100 S	16-100	100						150						150
NSX100 L	16-100	150												
NSX160 B	16-160	25		36	36	50	50	50		36	36	50	50	50
NSX160 F	16-160	36			50	70	100	150			50	70	100	150
NSX160 N	16-160	50				70	100	150				70	100	150
NSX160 H	16-160	70					100	150					100	150
NSX160 S	16-160	100						150						150
NSX160 L	16-160	150												
NSX250 B	16-250	25								36	36	50	50	50
NSX250 F	16-250	36									50	70	100	150
NSX250 N	16-250	50										70	100	150
NSX250 H	16-250	70											100	150
NSX250 S	16-250	100												150
NSX250 L	16-250	150												

[1] 230 V phase to neutral

Cascading

Upstream: ComPact NSX400, NSX630
Downstream: ComPact NSXm, NSX100, NSX160, NSX250, NSX400, NSX630

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream CB			NSX400					NSX630				
			F	N	H	S	L	F	N	H	S	L
		Icu (kA)	36	50	70	100	150	36	50	70	100	150
Downstream CB			Reinforced breaking capacity (kA) according to IEC/EN 60947-2 Annex A									
	Rating (A)	Icu (kA)										
NSXm E	16-160	16	25	30	30	30	30	25	30	30	30	30
NSXm B	16-160	25	36	36	50	50	50	36	36	50	50	50
NSXm F	16-160	36		50	70	70	70		50	70	70	70
NSXm N	16-160	50			70	70	70			70	70	70
NSXm H	16-160	70										
NSX100 B	16-100	25	36	36	50	50	50	36	36	50	50	50
NSX100 F	16-100	36		50	70	100	150		50	70	100	150
NSX100 N	16-100	50			70	100	150			70	100	150
NSX100 H	16-100	70				100	150				100	150
NSX100 S	16-100	100					150					150
NSX100 L	16-100	150										
NSX160 B	16-160	25	36	36	50	50	50	36	36	50	50	50
NSX160 F	16-160	36		50	70	100	150		50	70	100	150
NSX160 N	16-160	50			70	100	150			70	100	150
NSX160 H	16-160	70				100	150				100	150
NSX160 S	16-160	100					150					150
NSX160 L	16-160	150										
NSX250 B	16-250	25	36	36	50	50	50	36	36	50	50	50
NSX250 F	16-250	36		50	70	100	150		50	70	100	150
NSX250 N	16-250	50			70	100	150			70	100	150
NSX250 H	16-250	70				100	150				100	150
NSX250 S	16-250	100					150					150
NSX250 L	16-250	150										
NSX400 F	250-400	36		50	70	100	150		50	70	100	150
NSX400 N	250-400	50			70	100	150			70	100	150
NSX400 H	250-400	70				100	150				100	150
NSX400 S	250-400	100					150					150
NSX400 L	250-400	150										
NSX630 F	250-630	36							50	70	100	150
NSX630 N	250-630	50								70	100	150
NSX630 H	250-630	70									100	150
NSX630 S	250-630	100										150
NSX630 L	250-630	150										

Cascading

Upstream: ComPact NS630b-1600, ComPact NS1600-3200, MasterPact MTZ
Downstream: ComPact NSX, ComPact NS630b-1600

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream CB			NS630b-1600				NS1600-3200		MTZ1	MTZ2
			N	H	L [1]	LB [2]	N	H	L1	L1
		Icu (kA)	50	70	150	200	70	85	150	150
Downstream CB			**Reinforced breaking capacity (kA) according to IEC/EN 60947-2 Annex A**							
	Rating (A)	**Icu (kA)**								
NSX100 B	**16-100**	**25**	50	50	50	50			50	
NSX100 F	**16-100**	**36**	50	70	150	150			150	
NSX100 N	**16-100**	**50**		70	150	150			150	
NSX100 H	**16-100**	**70**			150	150			150	
NSX100 S	**16-100**	**100**			150	200			150	
NSX100 L	**16-100**	**150**				200				
NSX160 B	**16-160**	**25**	50	50	50	50			50	
NSX160 F	**16-160**	**36**	50	70	150	150			150	
NSX160 N	**16-160**	**50**		70	150	150			150	
NSX160 H	**16-160**	**70**			150	150			150	
NSX160 S	**16-160**	**100**			150	200			150	
NSX160 L	**16-160**	**150**				200				
NSX250 B	**16-250**	**25**	50	50	50	50			50	
NSX250 F	**16-250**	**36**	50	70	150	150			150	
NSX250 N	**16-250**	**50**		70	150	150			150	
NSX250 H	**16-250**	**70**			150	150			150	
NSX250 S	**16-250**	**100**			150	200			150	
NSX250 L	**16-250**	**150**				200				
NSX400 F	**250-400**	**36**	50	70	150	150			150	
NSX400 N	**250-400**	**50**		70	150	150			150	
NSX400 H	**250-400**	**70**			150	150			150	
NSX400 S	**250-400**	**100**			150	200			150	
NSX400 L	**250-400**	**150**				200				
NSX630 F	**250-630**	**36**	50	70	150	150			150	
NSX630 N	**250-630**	**50**		70	150	150			150	
NSX630 H	**250-630**	**70**			150	150			150	
NSX630S	**250-630**	**100**			150	200			150	
NSX630 L	**250-630**	**150**				200				
NS630b-1600 N	**630-1600**	**50**		70	150	200	70	70	150	65
NS630b-1600 H	**630-1600**	**70**			150	200			150	

[1] ComPact NS630bL, NS800L, NS1000L
[2] ComPact NS630bLB, NS800LB

Cascading

Upstream: iC60, NG125, ComPact NSXm, NSX100
Downstream: iC60, NG125, ComPact NSXm, NSX100

Ue: 440 V AC

Upstream CB	iC60					NG125		
	N	H	L			N	H	L
			≤ 25 A	32-40 A	50-63 A			
Icu (kA)	6	10	20	15	10	20	30	40

Downstream CB			Reinforced breaking capacity (kA) according to IEC/EN 60947-2 Annex A							
	Rating (A)	Icu (kA)								
iC60 N	0.5-63	6		10	20	15	10	20	20	20
iC60 H	0.5-63	10			20	15		20	25	25
iC60 L	0.5-25	20							30	40
	32-40	15						20	30	30
	50-63	10						20	25	25
NG125 N	1-125	20							30	40
NG125 H	1-125	30								40

Upstream CB	NSXm					NSX100					
	E	B	F	N	H	B	F	N	H	S	L
Icu (kA)	15	20	35	50	65	20	35	50	65	90	130

Downstream CB			Reinforced breaking capacity (kA) according to IEC/EN 60947-2 Annex A									
	Rating (A)	Icu (kA)										
iC60 N	0.5-63	6	10	15	15	20	20	15	15	20	20	20	20
iC60 H	0.5-63	10		20	20	25	25	20	20	25	25	25	25
iC60 L	0.5-25	20				25	25			25	25	25	25
	32-40	15		20	20	25	25	20	20	25	25	25	25
	50-63	10		20	20	25	25	20	20	25	25	25	25
NG125 N	1-125	20			35	35	35		35	35	35	50	65
NG125 H	1-125	30			35	40	50		35	40	50	65	90
NG125 L	1-80	40				50	65			50	65	90	130
NSXm E	16-160	15		20	30	30	30	20	20	30	30	30	30
NSXm B	16-160	20			35	35	50		35	35	50	50	50
NSXm F	16-160	35				50	65			50	65	65	65
NSXm N	16-160	50					65				65	65	65
NSXm H	16-160	65											
NSX100 B	16-100	20							35	35	50	50	50
NSX100 F	16-100	35								50	65	90	130
NSX100 N	16-100	50									65	90	130
NSX100 H	16-100	65										90	130
NSX100 S	16-100	90											130

Cascading

Upstream: Com**Pact** NSX160, NSX250
Downstream: iC60, NG125, Com**Pact** NSXm, NSX100, NSX160, NSX250

Ue: 440 V AC

Upstream CB			NSX160						NSX250					
			B	F	N	H	S	L	B	F	N	H	S	L
		Icu (kA)	20	35	50	65	90	130	20	35	50	65	90	130
Downstream CB			**Reinforced breaking capacity (kA) according to IEC/EN 60947-2 Annex A**											
	Rating (A)	**Icu (kA)**												
iC60 N	**0.5-63**	**6**	15	15	20	20	20	20						
iC60 H	**0.5-63**	**10**	20	20	25	25	25	25						
iC60 L	**0.5-25**	**20**			25	25	25	25						
	32-40	**15**	20	20	25	25	25	25						
	50-63	**10**	20	20	25	25	25	25						
NG125 N	**1-125**	**20**		35	35	35	50	65		35	35	35	50	65
NG125 H	**1-125**	**30**		35	40	50	65	90		35	40	50	65	90
NG125 L	**1-80**	**40**			50	65	90	130			50	65	90	130
NSXm E	**16-160**	**15**	20	20	30	30	30	30	20	20	30	30	30	30
NSXm B	**16-160**	**20**		35	35	50	50	50		35	35	50	50	50
NSXm F	**16-160**	**35**			50	65	65	65			50	65	65	65
NSXm N	**16-160**	**50**				65	65	65				65	65	65
NSXm H	**16-160**	**65**												
NSX100 B	**16-100**	**20**		35	35	50	50	50		35	35	50	50	50
NSX100 F	**16-100**	**35**			50	65	90	130			50	65	90	130
NSX100 N	**16-100**	**50**				65	90	130				65	90	130
NSX100 H	**16-100**	**65**					90	130					90	130
NSX100 S	**16-100**	**90**						130						130
NSX100 L	**16-100**	**130**												
NSX160 B	**16-160**	**20**		35	35	50	50	50		35	35	50	50	50
NSX160 F	**16-160**	**35**			50	65	90	130			50	65	90	130
NSX160 N	**16-160**	**50**				65	90	130				65	90	130
NSX160 H	**16-160**	**65**					90	130					90	130
NSX160 S	**16-160**	**90**						130						130
NSX160 L	**16-160**	**130**												
NSX250 B	**16-250**	**20**								35	35	50	50	50
NSX250 F	**16-250**	**35**									50	65	90	130
NSX250 N	**16-250**	**50**										65	90	130
NSX250 H	**16-250**	**65**											90	130
NSX250 S	**16-250**	**90**												130
NSX250 L	**16-250**	**130**												

Cascading

Upstream: ComPact NSX400, NSX630
Downstream: ComPact NSXm, NSX100, NSX160, NSX250, NSX400, NSX630

Ue: 440 V AC

Upstream CB			NSX400					NSX630				
			F	N	H	S	L	F	N	H	S	L
		Icu (kA)	30	42	65	90	130	30	42	65	90	130
Downstream CB			**Reinforced breaking capacity (kA) according to IEC/EN 60947-2 Annex A**									
	Rating (A)	**Icu (kA)**										
NSXm E	**16-160**	**10**	20	30	30	30	30	20	30	30	30	30
NSXm B	**16-160**	**20**	30	30	50	50	50	30	30	50	50	50
NSXm F	**16-160**	**35**		42	65	65	65		42	65	65	65
NSXm N	**16-160**	**50**			65	65	65			65	65	65
NSXm H	**16-160**	**65**										
NSX100 B	**16-100**	**20**	30	30	50	50	50	30	30	50	50	50
NSX100 F	**16-100**	**35**		42	65	90	130		42	65	90	130
NSX100 N	**16-100**	**50**			65	90	130			65	90	130
NSX100 H	**16-100**	**65**				90	130				90	130
NSX100 S	**16-100**	**90**					130					130
NSX100 L	**16-100**	**130**										
NSX160 B	**16-160**	**20**	30	30	50	50	50	30	30	50	50	50
NSX160 F	**16-160**	**35**		42	65	90	130		42	65	90	130
NSX160 N	**16-160**	**50**			65	90	130			65	90	130
NSX160 H	**16-160**	**65**				90	130				90	130
NSX160 S	**16-160**	**90**					130					130
NSX160 L	**16-160**	**130**										
NSX250 B	**16-250**	**20**	30	30	50	50	50	30	30	50	50	50
NSX250 F	**16-250**	**35**		42	65	90	130		42	65	90	130
NSX250 N	**16-250**	**50**			65	90	130			65	90	130
NSX250 H	**16-250**	**65**				90	130				90	130
NSX250 S	**16-250**	**90**					130					130
NSX250 L	**16-250**	**130**										
NSX400 F	**250-400**	**30**		42	65	90	130		42	65	90	130
NSX400 N	**250-400**	**42**			65	90	130			65	90	130
NSX400 H	**250-400**	**65**				90	130				90	130
NSX400 S	**250-400**	**90**					130					130
NSX400 L	**250-400**	**130**										
NSX630 F	**250-630**	**30**							42	65	90	130
NSX630 N	**250-630**	**42**								65	90	130
NSX630 H	**250-630**	**65**									90	130
NSX630 S	**250-630**	**90**										130
NSX630 L	**250-630**	**130**										

Cascading

Upstream: ComPact NS630b-1600, ComPact NS1600-3200, MasterPact MTZ
Downstream: ComPact NSX, ComPact NS630b-1600

Ue: 440 V AC

Upstream CB			NS630b-1600				NS1600-3200		MTZ1	MTZ2
			N	H	L [1]	LB [2]	N	H	L1	L1
		Icu (kA)	50	65	130	200	65	85	130	150
Downstream CB			**Reinforced breaking capacity (kA) according to IEC/EN 60947-2 Annex A**							
	Rating (A)	**Icu (kA)**								
NSX100 B	**16-100**	**20**	50	50	50	50			50	
NSX100 F	**16-100**	**35**	50	65	130	130			130	
NSX100 N	**16-100**	**50**		65	130	130			130	
NSX100 H	**16-100**	**65**			130	130			130	
NSX100 S	**16-100**	**90**			130	200			130	
NSX100 L	**16-100**	**130**				200				
NSX160 B	**16-160**	**20**	50	50	50	50			50	
NSX160 F	**16-160**	**35**	50	65	130	130			130	
NSX160 N	**16-160**	**50**		65	130	130			130	
NSX160 H	**16-160**	**65**			130	130			130	
NSX160 S	**16-160**	**90**			130	200			130	
NSX160 L	**16-160**	**130**				200				
NSX250 B	**16-250**	**20**	50	50	50	50			50	
NSX250 F	**16-250**	**35**	50	65	130	130			130	
NSX250 N	**16-250**	**50**		65	130	130			130	
NSX250 H	**16-250**	**65**			130	130			130	
NSX250 S	**16-250**	**90**			130	200			130	
NSX250 L	**16-250**	**130**				200				
NSX400 F	**250-400**	**30**	50	65	130	130			130	
NSX400 N	**250-400**	**42**		65	130	130			130	
NSX400 H	**250-400**	**65**			130	130			130	
NSX400 S	**250-400**	**90**			130	200			130	
NSX400 L	**250-400**	**130**				200				
NSX630 F	**250-630**	**30**	50	65	130	130			130	
NSX630 N	**250-630**	**42**		65	130	130			130	
NSX630 H	**250-630**	**65**			130	130			130	
NSX630 S	**250-630**	**90**			130	200			130	
NSX630 L	**250-630**	**130**				200				
NS630b-1600 N	**630-1600**	**50**		65	130	200	65	65	130	65
NS630b-1600 H	**630-1600**	**65**			130	200			130	

[1] ComPact NS630bL, NS800L, NS1000L
[2] ComPact NS630bLB, NS800LB

Cascading

Upstream: iC60, C120, NG125, ComPact NSXm, NSX100
Downstream: iDPN, iC60, C120, NG125, ComPact NSXm, NSX100

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream CB			iC60					C120		NG125		
			N	H	L			N	H	N	H	L
		Icu (kA)	20	30	50	36	30	20	30	50	70	100
Downstream CB			**Reinforced breaking capacity (kA) according to IEC/EN 60947-2 Annex A**									
	Rating (A)	Icu (kA)										
iDPN	1-40	10	15	20	30	25	20	15	20	20	40	50
iDPN N	1-40	15	20	30	50	36	30	20	30	30	40	50
iC60 N	0.5-25	20		30	50	36	30		30	50	50	50
	32-40	20		30		36	30		30	50	50	50
	50-63	20		30			30		30	50	50	50
iC60 H	0.5-25	30			50	36				50	70	70
	32-40	30				36				50	70	70
	50-63	30								50	70	70
iC60 L	0.5-25	50									70	100
	32-40	36								50	70	100
	50-63	30								50	70	100
C120 N	63-125	20							30	50	70	70
C120 H	63-125	30								50	70	70
NG125 N	1-125	50									70	70
NG125 H	1-125	70										100

Upstream CB			NSXm					NSX100					
			E	B	F	N	H	B	F	N	H	S	L
		Icu (kA)	25	50	85	90	100	40	85	90	100	120	150
Downstream CB			**Reinforced breaking capacity (kA) according to IEC/EN 60947-2 Annex A**										
	Rating (A)	Icu (kA)											
iDPN	1-40	10	20	20	20	20	20	20	20	20	20	20	20
iDPN N	1-40	15	30	30	30	30	30	30	30	30	30	30	30
iC60 N	0.5-63	20	25	40	60	60	60	40	40	60	60	60	60
iC60 H	0.5-63	30		50	80	80	80	40	50	80	80	80	80
iC60 L	0.5-25	50			80	80	80		65	80	80	80	80
	32-40	36		50	80	80	80	40	65	80	80	80	80
	50-63	30		50	80	80	80	40	65	80	80	80	80
C120 N	63-125	20	25	50	50	50	50	40	40	50	50	70	70
C120 H	63-125	30		50	50	50	50	40	40	50	50	70	70
NG125 N	1-125	50			60	70	70		60	70	70	85	85
NG125 H	1-125	70			85	85	85		85	85	85	85	85
NG125 L	1-80	100											
NSXm E	16-160	25		50	85	85	85	40	85	85	85	85	85
NSXm B	16-160	50			85	90	100		85	90	100	100	100
NSXm F	16-160	85				90	100			90	100	100	100
NSXm N	16-160	90					100				100	100	100
NSXm H	16-160	100											
NSX100 B	16-100	40							85	90	90	100	100
NSX100 F	16-100	85								90	100	120	120
NSX100 N	16-100	90									100	120	150
NSX100 H	16-100	100										120	150
NSX100 S	16-100	120											150

Cascading

Upstream: Com**Pact** NSX160, NSX250
Downstream: iDPN, iC60, C120, NG125, Com**Pact** NSXm, NSX100, NSX160, NSX250

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream CB			NSX160						NSX250					
			B	F	N	H	S	L	B	F	N	H	S	L
		Icu (kA)	40	85	90	100	120	150	40	85	90	100	120	150
Downstream CB			**Reinforced breaking capacity (kA) according to IEC/EN 60947-2 Annex A**											
	Rating (A)	**Icu (kA)**												
iDPN	**1-40**	**10**	20	20	20	20	20	20	20	20	20	20	20	20
iDPN N	**1-16**	**15**	30	30	30	30	30	30	30	30	30	30	30	30
	25-40	**15**	30	30	30	30	30	30	30	30	30	30	30	30
iC60 N	**0.5-40**	**20**	40	40	60	60	60	60	40	40	60	60	60	60
	50-63	**20**	40	40	60	60	60	60	40	40	60	60	60	60
iC60 H	**0.5-40**	**30**	40	50	80	80	80	80	40	50	65	65	65	65
	50-63	**30**	40	50	80	80	80	80	40	50	65	65	65	65
iC60 L	**0.5-25**	**50**		65	80	80	80	80		65	80	80	80	80
	32-40	**36**	40	65	80	80	80	80	40	65	80	80	80	80
	50-63	**30**	40	65	80	80	80	80	40	50	65	65	65	65
C120 N	**63-125**	**20**	40	40	50	50	70	70	40	40	50	50	70	70
C120 H	**63-125**	**30**	40	40	50	50	70	70	40	40	50	50	70	70
NG125 N	**1-125**	**50**		60	70	70	85	85		60	70	70	85	85
NG125 H	**1-125**	**70**		85	85	85	85	85		85	85	85	85	85
NG125 L	**1-80**	**100**												
NSXm E	**16-160**	**25**	40	85	85	85	85	85	40	85	85	85	85	85
NSXm B	**16-160**	**50**		85	90	100	100	100		85	90	100	100	100
NSXm F	**16-160**	**85**			90	100	100	100			90	100	100	100
NSXm N	**16-160**	**90**				100	100	100				100	100	100
NSXm H	**16-160**	**100**												
NSX100 B	**16-100**	**40**		85	90	90	100	100		85	90	90	100	100
NSX100 F	**16-100**	**85**			90	100	120	120			90	100	120	120
NSX100 N	**16-100**	**90**				100	120	150				100	120	150
NSX100 H	**16-100**	**100**					120	150					120	150
NSX100 S	**16-100**	**120**						150						150
NSX100 L	**16-100**	**150**												
NSX160 B	**16-160**	**40**		85	90	90	100	100		85	90	90	100	100
NSX160 F	**16-160**	**85**			90	100	120	120			90	100	120	120
NSX160 N	**16-160**	**90**				100	120	150				100	120	150
NSX160 H	**16-160**	**100**					120	150					120	150
NSX160 S	**16-160**	**120**						150						150
NSX160 L	**16-160**	**150**												
NSX250 B	**16-250**	**40**								85	90	90	100	100
NSX250 F	**16-250**	**85**									90	100	120	120
NSX250 N	**16-250**	**90**										100	120	150
NSX250 H	**16-250**	**100**											120	150
NSX250 S	**16-250**	**120**												150
NSX250 L	**16-250**	**150**												

Cascading

Upstream: ComPact NSX400, NSX630
Downstream: ComPact NSX100, NSX160, NSX250, NSX400, NSX630

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream CB			NSX400					NSX630				
			F	N	H	S	L	F	N	H	S	L
		Icu (kA)	40	85	100	120	150	40	85	100	120	150
Downstream CB			**Reinforced breaking capacity (kA) according to IEC/EN 60947-2 Annex A**									
	Rating (A)	**Icu (kA)**										
NSX100 B	**16-100**	**40**		85	90	100	100		85	90	100	100
NSX100 F	**16-100**	**85**			100	120	150			100	120	150
NSX100 N	**16-100**	**90**			100	120	150			100	120	150
NSX100 H	**16-100**	**100**				120	150				120	150
NSX100 S	**16-100**	**120**					150					150
NSX100 L	**16-100**	**150**										
NSX160 B	**16-160**	**40**		85	90	100	100		85	90	100	100
NSX160 F	**16-160**	**85**			100	120	150			100	120	150
NSX160 N	**16-160**	**90**			100	120	150			100	120	150
NSX160 H	**16-160**	**100**				120	150				120	150
NSX160 S	**16-160**	**120**					150					150
NSX160 L	**16-160**	**150**										
NSX250 B	**16-250**	**40**		85	90	100	100		85	90	100	100
NSX250 F	**16-250**	**85**			100	120	150			100	120	150
NSX250 N	**16-250**	**90**			100	120	150			100	120	150
NSX250 H	**16-250**	**100**				120	150				120	150
NSX250 S	**16-250**	**120**					150					150
NSX250 L	**16-250**	**150**										
NSX400 F	**250-400**	**40**		85	100	120	150		85	100	120	150
NSX400 N	**250-400**	**85**			100	120	150			100	120	150
NSX400 H	**250-400**	**100**				120	150			100	120	150
NSX400 S	**250-400**	**120**					150				120	150
NSX400 L	**250-400**	**150**										
NSX630 F	**250-630**	**40**							85	100	120	150
NSX630 N	**250-630**	**85**								100	120	150
NSX630 H	**250-630**	**100**								100	120	150
NSX630 S	**250-630**	**120**									120	150
NSX630 L	**250-630**	**150**										

Cascading

Upstream: ComPact NS630b-1600, MasterPact MTZ
Downstream: ComPact NSX, ComPact NS630b-1600

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream CB			NS630b-1600				MTZ1	MTZ2
			N	H	L [1]	LB [2]	L1	L1
		Icu (kA)	50	70	150	200	150	150
Downstream CB			**Reinforced breaking capacity (kA) according to IEC/EN 60947-2 Annex A**					
	Rating (A)	Icu (kA)						
NSX100 B	**16-100**	**40**	50	50	50	50	50	
NSX100 F	**16-100**	**85**			150	150	150	
NSX100 N	**16-100**	**90**			150	150	150	
NSX100 H	**16-100**	**100**			150	150	150	
NSX100 S	**16-100**	**120**			150	200	150	
NSX100 L	**16-100**	**150**				200		
NSX160 B	**16-160**	**40**	50	50	50	50	50	
NSX160 F	**16-160**	**85**			150	150	150	
NSX160 N	**16-160**	**90**			150	150	150	
NSX160 H	**16-160**	**100**			150	150	150	
NSX160 S	**16-160**	**120**			150	200	150	
NSX160 L	**16-160**	**150**				200		
NSX250 B	**16-250**	**40**	50	50	50	50	50	
NSX250 F	**16-250**	**85**			150	150	150	
NSX250 N	**16-250**	**90**			150	150	150	
NSX250 H	**16-250**	**100**			150	150	150	
NSX250 S	**16-250**	**120**			150	200	150	
NSX250 L	**16-250**	**150**				200		
NSX400 F	**250-400**	**40**	50	50	150	150	150	
NSX400 N	**250-400**	**85**			150	150	150	100
NSX400 H	**250-400**	**100**			150	150	150	
NSX400 S	**250-400**	**120**			150	200	150	
NSX400 L	**250-400**	**150**				200		
NSX630 F	**250-630**	**40**	50	50	150	150	150	
NSX630 N	**250-630**	**85**			150	150	150	100
NSX630 H	**250-630**	**100**			150	150	150	
NSX630 S	**250-630**	**120**			150	200	150	
NSX630 L	**250-630**	**150**				200		
NS630b-1600 N	**630-1600**	**50**		70				70

[1] ComPact NS630bL, NS800L, NS1000L
[2] ComPact NS630bLB, NS800LB

Selectivity enhanced by cascading

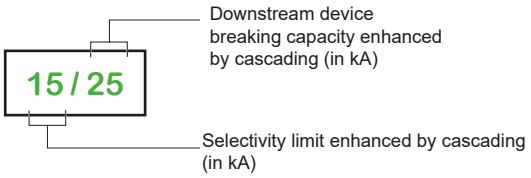
With traditional circuit breakers, cascading between two devices generally results in the loss of selectivity.
With ComPact circuit breakers, the selectivity characteristics in the tables remain applicable and are in some cases even enhanced. Protection selectivity is obtained for short-circuit currents greater than the rated breaking capacity of the circuit breaker and even, in some cases, for its enhanced breaking capacity. In the later case, **protection selectivity is total**, i.e. only the downstream device trips for any and all possible faults at its point in the installation.

Example
Consider a combination between:
- a ComPact NSX250H with trip unit TM250D
- a ComPact NSX100F with trip unit TM25D.

The selectivity tables indicate total selectivity. Protection selectivity is therefore obtained up to the breaking capacity of the NSX100F, i.e. **36 kA**.
The cascading tables indicate an enhanced breaking capacity of **70 kA**.
The enhanced selectivity tables indicate that in a cascading configuration, selectivity is obtained up to **70 kA**, i.e. for any and all possible faults at that point in the installation.

Enhanced selectivity tables - 380-415 V

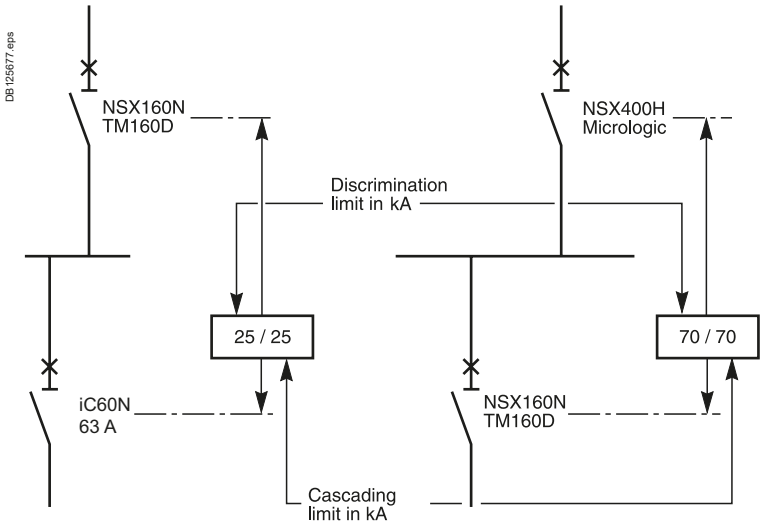
For each combination of two circuit breakers, the tables indicate the:



In a table, a box containing two equal values indicates that selectivity is provided up to the reinforced breaking capacity of the downstream device.
These tables apply only to cases with combined selectivity and cascading between two devices. For all other cases, refer to the normal cascading and selectivity tables.

Technical principle

Enhanced selectivity is the result of the exclusive ComPact NSX Roto-active breaking technique which operates as follows:
- due to the short-circuit current (electrodynamic forces), the contacts in both devices simultaneously separate. The result is major limitation of the short-circuit current
- the dissipated energy provokes the reflex tripping of the downstream device, but is insufficient to trip the upstream device.



Note: respect the basic rules of selectivity, in terms of overload, short-circuit, see page A-2 and A-14.

Selectivity enhanced by cascading

Upstream: Com**Pact** NSXm, MicroLogic 4.1, TM-D
Downstream: iC60

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream CB		NSXm														
		B					F					N/H				
	Icu (kA)	25					36					50/70				
	Trip unit	MicroLogic 4.1														
	Rating (A)	100			160		100			160		100			160	
	Setting Ir (A)	63	80	100	125	160	63	80	100	125	160	63	80	100	125	160

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)														
CB type	Rating (A)	Icu (kA)															
iC60 N	≤ 16	10	20/20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/30	25/30	25/30	25/30	25/30
	20	10	20/20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/30	25/30	25/30	25/30	25/30
	25	10		20/20	20/20	20/20	20/20		25/25	25/25	25/25	25/25		25/30	25/30	25/30	25/30
	32	10		20/20	20/20	20/20	20/20		25/25	25/25	25/25	25/25		25/30	25/30	25/30	25/30
	40	10		16/20	16/20	16/20	16/20		16/25	16/25	16/25	16/25		16/30	16/30	16/30	16/30
	50	10			8/20	8/20	8/20			8/25	8/25	8/25			8/30	8/30	8/30
	63	10				8/20	8/20				8/25	8/25				8/30	8/30
iC60 H	≤ 16	15	25/25	25/25	25/25	25/25	25/25	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36
	20	15	25/25	25/25	25/25	25/25	25/25	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36
	25	15		25/25	25/25	25/25	25/25		25/36	25/36	25/36	25/36		25/36	25/36	25/36	25/36
	32	15		25/25	25/25	25/25	25/25		25/36	25/36	25/36	25/36		25/36	25/36	25/36	25/36
	40	15		16/25	16/25	16/25	16/25		16/36	16/36	16/36	16/36		16/36	16/36	16/36	16/36
	50	15			8/25	8/25	8/25			8/36	8/36	8/36			8/36	8/36	8/36
	63	15				8/25	8/25				8/36	8/36				8/36	8/36
iC60 L	≤ 16	25	25/25	25/25	25/25	25/25	25/25	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36
	20	25	25/25	25/25	25/25	25/25	25/25	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36	25/36
	25	25		25/25	25/25	25/25	25/25		25/36	25/36	25/36	25/36		25/36	25/36	25/36	25/36
	32	20		25/25	25/25	25/25	25/25		25/36	25/36	25/36	25/36		25/36	25/36	25/36	25/36
	40	20		16/25	16/25	16/25	16/25		16/36	16/36	16/36	16/36		16/36	16/36	16/36	16/36
	50	15			8/25	8/25	8/25			8/36	8/36	8/36			8/36	8/36	8/36
	63	15				8/25	8/25				8/36	8/36				8/36	8/36

Upstream CB		NSXm														
		B					F					N/H				
	Icu (kA)	25					36					50/70				
	Trip unit	TM-D														
	Rating (A)	≤ 63	80	100	125	160	≤ 63	80	100	125	160	≤ 63	80	100	125	160

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)														
CB type	Rating (A)	Icu (kA)															
iC60 N	≤ 16	10	-/20	20/20	20/20	20/20	20/20	-/25	25/25	25/25	25/25	25/25	-/30	25/30	25/30	25/30	25/30
	20	10	-/20	20/20	20/20	20/20	20/20	-/25	25/25	25/25	25/25	25/25	-/30	25/30	25/30	25/30	25/30
	25	10		10/20	20/20	20/20	20/20		10/25	25/25	25/25	25/25		10/30	25/30	25/30	25/30
	32	10		3/20	20/20	20/20	20/20		3/25	25/25	25/25	25/25		3/30	25/30	25/30	25/30
	40	10		2/20	16/20	16/20	16/20		2/25	16/25	16/25	16/25		2/30	16/30	16/30	16/30
	50	10			6/20	8/20	8/20			6/25	8/25	8/25			6/30	8/30	8/30
	63	10				8/20	8/20				8/25	8/25				8/30	8/30
iC60 H	≤ 16	15	-/25	25/25	25/25	25/25	25/25	-/36	25/36	25/36	25/36	25/36	-/36	25/36	25/36	25/36	25/36
	20	15	-/25	25/25	25/25	25/25	25/25	-/36	25/36	25/36	25/36	25/36	-/36	25/36	25/36	25/36	25/36
	25	15		10/25	25/25	25/25	25/25		10/36	25/36	25/36	25/36		10/36	25/36	25/36	25/36
	32	15		3/25	25/25	25/25	25/25		3/36	25/36	25/36	25/36		3/36	25/36	25/36	25/36
	40	15		2/25	16/25	16/25	16/25		2/36	16/36	16/36	16/36		2/36	16/36	16/36	16/36
	50	15			6/25	8/25	8/25			6/36	8/36	8/36			6/36	8/36	8/36
	63	15				8/25	8/25				8/36	8/36				8/36	8/36
iC60 L	≤ 16	25	-/25	25/25	25/25	25/25	25/25	-/36	25/36	25/36	25/36	25/36	-/36	25/36	25/36	25/36	25/36
	20	25	-/25	25/25	25/25	25/25	25/25	-/36	25/36	25/36	25/36	25/36	-/36	25/36	25/36	25/36	25/36
	25	25		10/25	25/25	25/25	25/25		10/36	25/36	25/36	25/36		10/36	25/36	25/36	25/36
	32	20		3/25	25/25	25/25	25/25		3/36	25/36	25/36	25/36		3/36	25/36	25/36	25/36
	40	20		2/25	16/25	16/25	16/25		2/36	16/36	16/36	16/36		2/36	16/36	16/36	16/36
	50	15			6/25	8/25	8/25			6/36	8/36	8/36			6/36	8/36	8/36
	63	15				8/25	8/25				8/36	8/36				8/36	8/36

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".

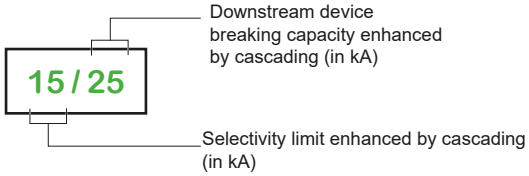
Selectivity enhanced by cascading

Upstream: ComPact NSX100, MicroLogic
Downstream: iC60

Ue: 380-415 V
(Ph/N 220-240 V AC)

Upstream CB		NSX100											
		B		F		N		H		S		L	
	Icu (kA)	25		36		50		70		100		150	
	Trip unit	MicroLogic [1]											
	Rating (A)	40	100	40	100	40	100	40	100	40	100	40	100

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)											
CB type	Rating (A)	Icu (kA)												
iC60 N	≤ 20	10	20/20	20/20	25/25	25/25	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30
	25	10	20/20	20/20	25/25	25/25	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30
	32	10		20/20		25/25		30/30		30/30		30/30		30/30
	40	10		20/20		25/25		30/30		30/30		30/30		30/30
	50	10		6/20		6/25		6/30		6/30		6/30		6/30
	63	10		6/20		6/25		6/30		6/30		6/30		6/30
iC60 H	≤ 20	15	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	25	15	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	32	15		25/25		36/36		40/40		40/40		40/40		40/40
	40	15		25/25		36/36		40/40		40/40		40/40		40/40
	50	15		6/25		6/36		6/40		6/40		6/40		6/40
	63	15		6/25		6/36		6/40		6/40		6/40		6/40
iC60 L	≤ 20	25	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	25	25	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	32	20		25/25		36/36		40/40		40/40		40/40		40/40
	40	20		25/25		36/36		40/40		40/40		40/40		40/40
	50	15		6/25		6/36		6/40		6/40		6/40		6/40
	63	15		6/25		6/36		6/40		6/40		6/40		6/40



Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".
[1] Applicable for all "Distribution" MicroLogic of ComPact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) MicroLogic of ComPact NSX range but curves shall be checked. Not applicable for "Motor" MicroLogic of ComPact NSX range ("M" type).

Selectivity enhanced by cascading

Upstream: ComPact NSX160, NSX250, MicroLogic
Downstream: iC60, C120, NG125, ComPact NSXm, NSX100

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream CB			NSX160											
			B		F		N		H		S		L	
		Icu (kA)	25		36		50		70		100		150	
		Trip unit	MicroLogic [1]											
		Rating (A)	100	160	100	160	100	160	100	160	100	160	100	160
Downstream CB			**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**											
CB type	**Rating (A)**	**Icu (kA)**												
iC60 N	⩽ 20	10	20/20	20/20	25/25	25/25	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30
	25	10	20/20	20/20	25/25	25/25	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30
	32	10	20/20	20/20	25/25	25/25	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30
	40	10	20/20	20/20	25/25	25/25	30/30	30/30	30/30	30/30	30/30	30/30	30/30	30/30
	50	10	6/20	20/20	6/25	25/25	6/30	30/30	6/30	30/30	6/30	30/30	6/30	30/30
	63	10	6/20	20/20	6/25	25/25	6/30	30/30	6/30	30/30	6/30	30/30	6/30	30/30
iC60 H	⩽ 20	15	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	25	15	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	32	15	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	40	15	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	50	15	6/25	25/25	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36
	63	15	6/25	25/25	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36
iC60 L	⩽ 20	25	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	25	25	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	32	20	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	40	20	25/25	25/25	36/36	36/36	40/40	40/40	40/40	40/40	40/40	40/40	40/40	40/40
	50	15	6/25	25/25	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36
	63	15	6/25	25/25	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36	6/36	36/36

Upstream CB			NSX250					
			B	F	N	H	S	L
		Icu (kA)	25	36	50	70	100	150
		Trip unit	MicroLogic [1]					
		Rating (A)	250	250	250	250	250	250
Downstream CB			**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**					
CB type	**Rating (A)**	**Icu (kA)**						
iC60 N	⩽ 40	10	20/20	25/25	30/30	30/30	30/30	30/30
	50-63A	10	20/20	25/25	25/25	25/25	25/25	25/25
iC60 H	⩽ 40	15	25/25	30/30	30/30	30/30	30/30	30/30
	50-63A	15	25/25	25/25	25/25	25/25	25/25	25/25
iC60 L	⩽ 25	25	25/25	30/30	30/30	30/30	30/30	30/30
	32-40	20	25/25	30/30	30/30	30/30	30/30	30/30
	50-63	15	25/25	25/25	25/25	25/25	25/25	25/25
C120 N		10	25/25	25/25	25/25	25/25	25/25	25/25
C120 H		15	25/25	25/25	25/25	25/25	25/25	25/25
NG125 N		25		36/36	36/36	36/36	50/50	70/70
NG125 H		36			40/40	50/50	70/70	100/100
NG125 L		50				70/70	100/100	150/150
NSXm E		16	25/25	25/25	30/30	30/30	30/30	30/30
NSXm B		25		36/36	36/36	50/50	50/50	50/50
NSXm F		36			50/50	70/70	70/70	70/70
NSXm N		50				70/70	70/70	70/70
NSX100 B	⩽ 25	25		36/36	36/36	50/50	50/50	50/50
TM-D	40-100	25		36/36	36/36	36/50	36/50	36/50
NSX100 F	⩽ 25	36			50/50	70/70	100/100	150/150
TM-D	40-100	36			36/50	36/70	36/100	36/150
NSX100 N	⩽ 25	50				70/70	100/100	150/150
TM-D	40-100	50				36/70	36/100	36/150
NSX100 H	⩽ 25	70					100/100	150/150
TM-D	40-100	70					36/100	36/150
NSX100 S	⩽ 25	100						150/150
TM-D	40-100	100						36/150
NSX100 B MicroLogic		25		36/36	36/50	36/50	36/50	36/50
NSX100 F MicroLogic		36				36/70	36/100	36/150
NSX100 N MicroLogic		50				36/70	36/100	36/150
NSX100 H MicroLogic		70					36/100	36/150
NSX100 S MicroLogic		100						36/150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".

[1] Applicable for all "Distribution" MicroLogic of ComPact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) MicroLogic of ComPact NSX range but curves shall be checked. Not applicable for "Motor" MicroLogic of ComPact NSX range ("M" type).

Selectivity enhanced by cascading

Upstream: ComPact NSX160, NSX250, TM-D
Downstream: iC60, C120, NG125, ComPact NSXm, NSX100

A

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream CB		NSX160											
		B		F		N		H		S		L	
	Icu (kA)	25		36		50		70		100		150	
	Trip unit	TM-D											
	Rating (A)	≤ 100	125-160	≤ 100	125-160	≤ 100	125-160	≤ 100	125-160	≤ 100	125-160	≤ 100	125-160
Downstream CB		**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**											
CB type	**Rating (A)**	**Icu (kA)**											
iC60 N	**≤ 20**	**10**	-/20	20/20	-/25	25/25	-/30	30/30	-/30	30/30	-/30	30/30	-/30	30/30
	25	**10**	-/20	20/20	-/25	25/ 25	-/30	30/30	-/30	30/30	-/30	30/30	-/30	30/30
	32	**10**	-/20	20/20	-/25	25/25	-/30	30/30	-/30	30/30	-/30	30/30	-/30	30/30
	40	**10**	-/20	20/20	-/25	25/25	-/30	30/30	-/30	30/30	-/30	30/30	-/30	30/30
	50	**10**	-/20	20/20	-/25	25/25	-/30	30/30	-/30	30/30	-/30	30/30	-/30	30/30
	63	**10**	-/20	20/20	-/25	25/25	-/30	30/30	-/30	30/30	-/30	30/30	-/30	30/30
iC60 H	**≤ 20**	**15**	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	25	**15**	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	32	**15**	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	40	**15**	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	50	**15**	-/25	25/25	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36
	63	**15**	-/25	25/25	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36
iC60 L	**≤ 20**	**25**	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	25	**25**	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	32	**20**	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	40	**20**	-/25	25/25	-/36	36/36	-/40	40/40	-/40	40/40	-/40	40/40	-/40	40/40
	50	**15**	-/25	25/25	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36
	63	**15**	-/25	25/25	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36	-/36	36/36

Upstream CB		NSX250					
		B	F	N	H	S	L
	Icu (kA)	25	36	50	70	100	130
	Trip unit	TM-D					
	Rating (A)	200-250	200-250	200-250	200-250	200-250	200-250
Downstream CB		**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**					
CB type	**Rating (A)**	**Icu (kA)**					
iC60 N	**≤ 40**	**10**	20/20	25/25	30/30	30/30	30/30	30/30
	50-63	**10**	20/20	25/25	25/25	25/25	25/25	25/25
iC60 H	**≤ 40**	**15**	25/25	30/30	30/30	30/30	30/30	30/30
	50-63	**15**	25/25	25/25	25/25	25/25	25/25	25/25
iC60 L	**≤ 25**	**25**	25/25	30/30	30/30	30/30	30/30	30/30
	32-40	**20**	25/25	30/30	30/30	30/30	30/30	30/30
	50-63	**15**	25/25	25/25	25/25	25/25	25/25	25/25
C120 N		**10**	25/25	25/25	25/25	25/25	25/25	25/25
C120 H		**15**	25/25	25/25	25/25	25/25	25/25	25/25
NG125 N		**25**		36/36	36/36	36/36	50/50	70/70
NG125 H		**36**			40/40	50/50	70/70	100/100
NG125 L		**50**				70/70	100/100	150/150
NSXm E	**≤ 125**	**16**	25/25	25/25	30/30	30/30	30/30	30/30
NSXm B	**≤ 125**	**25**		36/36	36/36	50/50	50/50	50/50
NSXm F	**≤ 125**	**36**			50/50	70/70	70/70	70/70
NSXm N	**≤ 125**	**50**				70/70	70/70	70/70
NSX100 B	**≤ 25**	**25**		36/36	36/36	50/50	50/50	50/50
TM-D	**40 - 100**	**25**		36/36	36/36	36/50	36/50	36/50
NSX100 F	**≤ 25**	**36**			50/50	70/70	100/100	150/150
TM-D	**40 - 100**	**36**			36/50	36/70	36/100	36/150
NSX100 N	**≤ 25**	**50**				70/70	100/100	150/150
TM-D	**40 - 100**	**50**				36/70	36/100	36/150
NSX100 H	**≤ 25**	**70**					100/100	150/150
TM-D	**40 - 100**	**70**					36/100	36/150
NSX100S	**≤ 25**	**100**						150/150
TM-D	**40 - 100**	**70**						36/150
NSX100 B MicroLogic		**25**		2/36	2/36	2/50	2/50	2/50
NSX100 F MicroLogic		**36**			2/50	2/70	2/100	2/150
NSX100 N MicroLogic		**50**				2/70	2/100	2/150
NSX100 H MicroLogic		**70**					2/100	2/150
NSX100 S MicroLogic		**100**						2/150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".

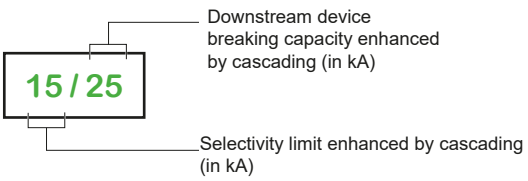
Selectivity enhanced by cascading

Upstream: ComPact NSX400, NSX630, MicroLogic
Downstream: ComPact NSXm, NSX100, NSX160, NSX250

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream CB		NSX400					NSX630				
		F	N	H	S	L	F	N	H	S	L
	Icu (kA)	36	50	70	100	150	36	50	70	100	150
	Trip unit	MicroLogic [1]									
	Rating (A)	400	400	400	400	400	630	630	630	630	630

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)									
CB type	Trip unit	Icu (kA)										
NSXm E	TM-D	16	25/25	30/30	30/30	30/30	30/30	25/25	30/30	30/30	30/30	30/30
NSXm B	TM-D	25	36/36	36/36	50/50	50/50	50/50	36/36	36/36	50/50	50/50	50/50
NSXm F	TM-D	36		50/50	70/70	70/70	70/70		50/50	70/70	70/70	70/70
NSXm N	TM-D	50			70/70	70/70	70/70			70/70	70/70	70/70
NSXm E	MicroLogic	16	25/25	30/30	30/30	30/30	30/30	25/25	30/30	30/30	30/30	30/30
NSXm B	MicroLogic	25	36/36	36/36	50/50	50/50	50/50	36/36	36/36	50/50	50/50	50/50
NSXm F	MicroLogic	36		50/50	70/70	70/70	70/70		50/50	70/70	70/70	70/70
NSXm N	MicroLogic	50			70/70	70/70	70/70			70/70	70/70	70/70
NSX100 B	TM-D	25	36/36	36/36	50/50	50/50	50/50	36/36	36/36	50/50	50/50	50/50
NSX100 F	TM-D	36		50/50	70/70	100/100	150/150		50/50	70/70	100/100	150/150
NSX100 N	TM-D	50			70/70	100/100	150/150			70/70	100/100	150/150
NSX100 H	TM-D	70				100/100	150/150				100/100	150/150
NSX100 S	TM-D	100					150/150					150/150
NSX160 B	TM-D	25	36/36	36/36	50/50	50/50	50/50	36/36	36/36	50/50	50/50	50/50
NSX160 F	TM-D	36		50/50	70/70	100/100	150/150		50/50	70/70	100/100	150/150
NSX160 N	TM-D	50			70/70	100/100	150/150			70/70	100/100	150/150
NSX160 H	TM-D	70				100/100	150/150				100/100	150/150
NSX160 S	TM-D	100					150/150					150/150
NSX250 B	TM-D	25						36/36	36/36	50/50	50/50	50/50
NSX250 F	TM-D	36							50/50	70/70	100/100	150/150
NSX250 N	TM-D	50								70/70	100/100	150/150
NSX250 H	TM-D	70									100/100	150/150
NSX250 S	TM-D	100										150/150
NSX100 B	MicroLogic	25	36/36	36/36	50/50	50/50	50/50	36/36	36/36	50/50	50/50	50/50
NSX100 F	MicroLogic	36		50/50	70/70	100/100	150/150		50/50	70/70	100/100	150/150
NSX100 N	MicroLogic	50			70/70	100/100	150/150			70/70	100/100	150/150
NSX100 H	MicroLogic	70				100/100	150/150				100/100	150/150
NSX100 S	MicroLogic	100					150/150					150/150
NSX160 B	MicroLogic	25	36/36	36/36	50/50	50/50	50/50	36/36	36/36	50/50	50/50	50/50
NSX160 F	MicroLogic	36		50/50	70/70	100/100	150/150		50/50	70/70	100/100	150/150
NSX160 N	MicroLogic	50			70/70	100/100	150/150			70/70	100/100	150/150
NSX160 H	MicroLogic	70				100/100	150/150				100/100	150/150
NSX160 S	MicroLogic	100					150/150					150/150
NSX250 B	MicroLogic	25						36/36	36/36	50/50	50/50	50/50
NSX250 F	MicroLogic	36							50/50	70/70	100/100	150/150
NSX250 N	MicroLogic	50								70/70	100/100	150/150
NSX250 H	MicroLogic	70									100/100	150/150
NSX250 S	MicroLogic	100										150/150



Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".
[1] Applicable for all "Distribution" MicroLogic of ComPact NSX range: 2.3 4.3, 5.3, 6.3, 7.3. For 4.3 and 7.3 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) MicroLogic of ComPact NSX range but curves shall be checked Not applicable for "Motor" MicroLogic of ComPact NSX range ("M" type).

Selectivity enhanced by cascading

Upstream: ComPact NS800, NS1000, NS1250, NS1600, MicroLogic
Downstream: ComPact NSX100, NSX160, NSX250, NSX400, NSX630

Ue: 380-415 V AC
(Ph/N 220-240 V AC)

Upstream CB		NS800				NS1000			NS1250		NS1600	
		N	H	L	LB	N	H	L	N	H	N	H
	Icu (kA)	50	70	150	200	50	70	150	50	70	50	70
	Trip unit	MicroLogic										
	Rating (A)	800	800	800	800	1000	1000	1000	1250	1250	1600	1600

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)										
CB type	Trip unit	Icu (kA)											
NSX100 B	TM-D / MicroLogic	25	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
NSX100 F	TM-D / MicroLogic	36	50/50	70/70	150/150	150/150	50/50	70/70	150/150	50/50	70/70	50/50	70/70
NSX100 N	TM-D / MicroLogic	50		70/70	150/150	150/150		70/70	150/150		70/70		70/70
NSX100 H	TM-D / MicroLogic	70			150/150	150/150			150/150				
NSX100 S	TM-D / MicroLogic	100			150/150	200/200			150/150				
NSX100 L	TM-D / MicroLogic	150				200/200							
NSX160 B	TM-D / MicroLogic	25	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
NSX160 F	TM-D / MicroLogic	36	50/50	70/70	150/150	150/150	50/50	70/70	150/150	50/50	70/70	50/50	70/70
NSX160 N	TM-D / MicroLogic	50		70/70	150/150	150/150		70/70	150/150		70/70		70/70
NSX160 H	TM-D / MicroLogic	70			150/150	150/150			150/150				
NSX160 S	TM-D / MicroLogic	100			150/150	200/200			150/150				
NSX160 L	TM-D / MicroLogic	150				200/200							
NSX250 B	TM-D / MicroLogic	25	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
NSX250 F	TM-D / MicroLogic	36	50/50	70/70	150/150	150/150	50/50	70/70	150/150	50/50	70/70	50/50	70/70
NSX250 N	TM-D / MicroLogic	50		70/70	150/150	150/150		70/70	150/150		70/70		70/70
NSX250 H	TM-D / MicroLogic	70			150/150	150/150			150/150				
NSX250 S	TM-D / MicroLogic	100			150/150	200/200			150/150				
NSX250 L	TM-D / MicroLogic	150				200/200							
NSX400 F	MicroLogic	36	50/50	70/70	10/150	10/150	50/50	70/70	15/150	50/50	70/70	50/50	70/70
NSX400 N	MicroLogic	50		70/70	10/150	10/150		70/70	15/150		70/70		70/70
NSX400 H	MicroLogic	70			10/150	10/150			15/150				
NSX400 S	MicroLogic	100			10/150	10/200			15/150				
NSX400 L	MicroLogic	150				10/200							
NSX630 F	MicroLogic	36					50/50	65/70	10/150	50/50	65/70	50/50	65/70
NSX630 N	MicroLogic	50						65/70	10/150		65/70		65/70
NSX630 H	MicroLogic	70							10/150				
NSX630 S	MicroLogic	100							10/150				

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".

Selectivity enhanced by cascading

Upstream: Com**Pact** NSXm, MicroLogic, TM-D
Downstream: iC60

Ue: 440 V AC

Upstream CB		NSXm														
		B					F					N/H				
	Icu (kA)	20					35					50/65				
	Trip unit	MicroLogic 4.1														
	Rating (A)	100			160		100			160		100			160	
	Setting Ir (A)	63	80	100	125	160	63	80	100	125	160	63	80	100	125	160
Downstream CB		Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)														
CB type	Rating (A)	Icu (kA)														
iC60 N	≤ 16	6	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20
	20	6	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20
	25	6		15/15	15/15	15/15	15/15		15/15	15/15	15/15	15/15		20/20	20/20	20/20	20/20
	32	6		15/15	15/15	15/15	15/15		15/15	15/15	15/15	15/15		20/20	20/20	20/20	20/20
	40	6		15/15	15/15	15/15	15/15		15/15	15/15	15/15	15/15		16/20	16/20	16/20	16/20
	50	6			8/15	8/15	8/15			8/15	8/15	8/15			8/20	8/20	8/20
	63	6				8/15	8/15				8/15	8/15				8/20	8/20
iC60 H	≤ 16	10	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25
	20	10	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25
	25	10		20/20	20/20	20/20	20/20		20/20	20/20	20/20	20/20		25/25	25/25	25/25	25/25
	32	10		20/20	20/20	20/20	20/20		20/20	20/20	20/20	20/20		25/25	25/25	25/25	25/25
	40	10		16/20	16/20	16/20	16/20		16/20	16/20	16/20	16/20		16/25	16/25	16/25	16/25
	50	10			8/20	8/20	8/20			8/20	8/20	8/20			8/25	8/25	8/25
	63	10				8/20	8/20				8/20	8/20				8/25	8/25
iC60 L	≤ 16	20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25
	20	20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25
	25	20		20/20	20/20	20/20	20/20		20/20	20/20	20/20	20/20		25/25	25/25	25/25	25/25
	32	20		20/20	20/20	20/20	20/20		20/20	20/20	20/20	20/20		25/25	25/25	25/25	25/25
	40	20		16/20	16/20	16/20	16/20		16/20	16/20	16/20	16/20		16/25	16/25	16/25	16/25
	50	20			8/20	8/20	8/20			8/20	8/20	8/20			8/25	8/25	8/25
	63	20				8/20	8/20				8/20	8/20				8/25	8/25

Upstream CB		NSXm														
		B					F					N / H				
	Icu (kA)	20					35					50 / 65				
	Trip unit	TM-D														
	Rating (A)	≤ 63	80	100	125	160	≤ 63	80	100	125	160	≤ 63	80	100	125	160
Downstream CB		Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)														
CB type	Rating (A)	Icu (kA)														
iC60 N	≤ 16	6	-/15	15/15	15/15	15/15	15/15	-/15	15/15	15/15	15/15	15/15	-/20	20/20	20/20	20/20	20/20
	20	6	-/15	15/15	15/15	15/15	15/15	-/15	15/15	15/15	15/15	15/15	-/20	20/20	20/20	20/20	20/20
	25	6		8/15	15/15	15/15	15/15		8/15	15/15	15/15	15/15		8/20	20/20	20/20	20/20
	32	6		3/15	15/15	15/15	15/15		3/15	15/15	15/15	15/15		3/20	20/20	20/20	20/20
	40	6		2/15	15/15	15/15	15/15		2/15	15/15	15/15	15/15		2/20	16/20	16/20	16/20
	50	6			6/15	8/15	8/15			6/15	8/15	8/15			6/20	8/20	8/20
	63	6				8/15	8/15				8/15	8/15				8/20	8/20
iC60 H	≤ 16	10	-/20	20/20	20/20	20/20	20/20	-/20	20/20	20/20	20/20	20/20	-/25	25/25	25/25	25/25	25/25
	20	10	-/20	20/20	20/20	20/20	20/20	-/20	20/20	20/20	20/20	20/20	-/25	25/25	25/25	25/25	25/25
	25	10		8/20	20/20	20/20	20/20		8/20	20/20	20/20	20/20		8/25	25/25	25/25	25/25
	32	10		3/20	20/20	20/20	20/20		3/20	20/20	20/20	20/20		3/25	25/25	25/25	25/25
	40	10		2/20	16/20	16/20	16/20		2/20	16/20	16/20	16/20		2/25	16/25	16/25	16/25
	50	10			6/20	8/20	8/20			6/20	8/20	8/20			6/25	8/25	8/25
	63	10				8/20	8/20				8/20	8/20				8/25	8/25
iC60 L	≤ 16	20	-/20	20/20	20/20	20/20	20/20	-/20	20/20	20/20	20/20	20/20	-/25	25/25	25/25	25/25	25/25
	20	20	-/20	20/20	20/20	20/20	20/20	-/20	20/20	20/20	20/20	20/20	-/25	25/25	25/25	25/25	25/25
	25	20		8/20	20/20	20/20	20/20		8/20	20/20	20/20	20/20		8/25	25/25	25/25	25/25
	32	15		3/20	20/20	20/20	20/20		3/20	20/20	20/20	20/20		3/25	25/25	25/25	25/25
	40	15		2/20	16/20	16/20	16/20		2/20	16/20	16/20	16/20		2/25	16/25	16/25	16/25
	50	10			6/20	8/20	8/20			6/20	8/20	8/20			6/25	8/25	8/25
	63	10				8/20	8/20				8/20	8/20				8/25	8/25

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".

Selectivity enhanced by cascading

Upstream: ComPact NSX100, MicroLogic
Downstream: iC60

Ue: 440 V AC

Upstream CB		NSX100											
		B		F		N		H		S		L	
	Icu (kA)	20		35		50		65		90		130	
	Trip unit	MicroLogic [1]											
	Rating (A)	40	100	40	100	40	100	40	100	40	100	40	100

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)											
CB type	Rating (A)	Icu (kA)												
iC60 N	≤ 20	6	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20
	25	6	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20
	32	6		15/15		15/15		20/20		20/20		20/20		20/20
	40	6		15/15		15/15		20/20		20/20		20/20		20/20
	50	6		6/15		6/15		6/20		6/20		6/20		6/20
	63	6		6/15		6/15		6/20		6/20		6/20		6/20
iC60 H	≤ 20	10	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	25	10	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	32	10		20/20		20/20		25/25		25/25		25/25		25/25
	40	10		20/20		20/20		25/25		25/25		25/25		25/25
	50	10		6/20		6/20		6/25		6/25		6/25		6/25
	63	10		6/20		6/20		6/25		6/25		6/25		6/25
iC60 L	≤ 20	20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	25	20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	32	15		20/20		20/20		25/25		25/25		25/25		25/25
	40	15		20/20		20/20		25/25		25/25		25/25		25/25
	50	10		6/20		6/20		6/25		6/25		6/25		6/25
	63	10		6/20		6/20		6/25		6/25		6/25		6/25

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".
[1] Applicable for all "Distribution" MicroLogic of ComPact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) MicroLogic of ComPact NSX range but curves shall be checked. Not applicable for "Motor" MicroLogic of ComPact NSX range ("M" type).

Selectivity enhanced by cascading

Upstream: ComPact NSX160, NSX250, MicroLogic
Downstream: iC60, NG125, ComPact NSXm, NSX100

Ue: 440 V AC

Upstream CB		NSX160											
		B		F		N		H		S		L	
	Icu (kA)	20		35		50		65		90		130	
	Trip unit	MicroLogic [1]											
	Rating (A)	100	160	100	160	100	160	100	160	100	160	100	160

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)											
CB type	Rating (A)	Icu (kA)												
iC60 N	≤ 20	6	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20
	25	6	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20
	32	6	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20
	40	6	15/15	15/15	15/15	15/15	20/20	20/20	20/20	20/20	20/20	20/20	20/20	20/20
	50	6	6/15	15/15	6/15	15/15	6/20	20/20	6/20	20/20	6/20	20/20	6/20	20/20
	63	6	6/15	15/15	6/15	15/15	6/20	20/20	6/20	20/20	6/20	20/20	6/20	20/20
iC60 H	20	10	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	25	10	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	32	10	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	40	10	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	50	10	6/20	20/20	6/20	20/20	6/25	25/25	6/25	25/25	6/25	25/25	6/25	25/25
	63	10	6/20	20/20	6/20	20/20	6/25	25/25	6/25	25/25	6/25	25/25	6/25	25/25
iC60 L	≤ 20	20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	25	20	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	32	15	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	40	15	20/20	20/20	20/20	20/20	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25
	50	10	6/20	20/20	6/20	20/20	6/25	25/25	6/25	25/25	6/25	25/25	6/25	25/25
	63	10	6/20	20/20	6/20	20/20	6/25	25/25	6/25	25/25	6/25	25/25	6/25	25/25
NG125 N	≤ 20	20				35/35		35/35		35/35		50/50		65/65
NG125 H	≤ 20	30						40/40		50/50		65/65		90/90
NG125 L	≤ 20	40						50/50		65/65		90/90		130/130

Upstream CB		NSX250					
		B	F	N	H	S	L
	Icu (kA)	20	35	50	65	90	130
	Trip unit	MicroLogic [1]					
	Rating (A)	250	250	250	250	250	250

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)					
CB type	Rating (A)	Icu (kA)						
NG125 N		20		35/35	35/35	35/35	50/50	65/65
NG125 H		30			40/40	50/50	65/65	90/90
NG125 L		40				65/65	90/90	130/130
NSXm E		15	20/20	20/20	30/30	30/30	30/30	30/30
NSXm B		20		35/35	35/35	50/50	50/50	50/50
NSXm F		35			50/50	65/65	65/65	65/65
NSXm N		50				65/65	65/65	65/65
NSX100 B TM-D	≤ 25			35/35	35/35	50/50	50/50	50/50
	40 - 100			35/35	35/35	36/50	36/50	36/50
NSX100 F TM-D	≤ 25				50/50	65/65	90/90	130/130
	40 - 100				36/50	36/65	36/90	36/130
NSX100 N TM-D	≤ 25					65/65	90/90	130/130
	40 - 100					36/65	36/90	36/130
NSX100 H TM-D	≤ 25						90/90	130/130
	40 - 100						36/90	36/130
NSX100 S TM-D	≤ 25							130/130
	40 - 100							36/130
NSX100 B MicroLogic		20		35/35	35/35	35/50	35/50	35/50
NSX100 F MicroLogic		35			35/50	35/50	35/90	35/130
NSX100 N MicroLogic		50				35/65	35/90	35/130
NSX100 H MicroLogic		65					35/90	35/130
NSX100 S MicroLogic		90						35/130

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".

[1] Applicable for all "Distribution" MicroLogic of ComPact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) MicroLogic of ComPact NSX range but curves shall be checked. Not applicable for "Motor" MicroLogic of ComPact NSX range ("M" type).

Selectivity enhanced by cascading

Upstream: Com**Pact** NSX160, NSX250, TM-D
Downstream: iC60, NG125, Com**Pact** NSXm, NSX100

Ue: 440 V AC

Upstream CB		NSX160											
		B		F		N		H		S		L	
	Icu (kA)	20		35		50		65		90		130	
	Trip unit	TM-D											
	Rating (A)	≤ 100	125-160	≤ 100	125-160	≤ 100	125-160	≤ 100	125-160	≤ 100	125-160	≤ 100	125-160
Downstream CB													
CB type	**Rating (A)**	**Icu (kA)**	**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**										
iC60 N	**20**	**6**	-/15	15/15	-/15	15/15	-/20	20/20	-/20	20/20	-/20	20/20	-/20	20/20
	25	**6**	-/15	15/15	-/15	15/15	-/20	20/20	-/20	20/20	-/20	20/20	-/20	20/20
	32	**6**	-/15	15/15	-/15	15/15	-/20	20/20	-/20	20/20	-/20	20/20	-/20	20/20
	40	**6**	-/15	15/15	-/15	15/15	-/20	20/20	-/20	20/20	-/20	20/20	-/20	20/20
	50	**6**	-/15	15/15	-/15	15/15	-/20	20/20	-/20	20/20	-/20	20/20	-/20	20/20
	63	**6**	-/15	15/15	-/15	15/15	-/20	20/20	-/20	20/20	-/20	20/20	-/20	20/20
iC60 H	**≤ 20**	**10**	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	25	**10**	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	32	**10**	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	40	**10**	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	50	**10**	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	63	**10**	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
iC60 L	**≤ 20**	**20**	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	25	**20**	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	32	**15**	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	40	**15**	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	50	**10**	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
	63	**10**	-/20	20/20	-/20	20/20	-/25	25/25	-/25	25/25	-/25	25/25	-/25	25/25
NG125 N	**≤ 20**	**20**				35/35		35/35		35/35		50/50		65/65
NG125 H	**≤ 20**	**30**				35/35		40/40		50/50		65/65		90/90
NG125 L	**≤ 20**	**40**						50/50		65/65		90/90		130/130

Upstream CB		NSX250					
		B	F	N	H	S	L
	Icu (kA)	20	35	50	65	90	130
	Trip unit	TM-D					
	Rating (A)	200-250	200-250	200-250	200-250	200-250	200-250
Downstream CB							
CB type	**Rating (A)**	**Icu (kA)**	**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**				
NG125 N		**20**		35/35	35/35	50/50	65/65
NG125 H		**30**			40/40	50/50	65/65	90/90
NG125 L		**40**				65/65	90/90	130/130
NSXm E	**≤ 125**	**10**	20/20	20/20	30/30	30/30	30/30	30/30
NSXm B	**≤ 125**	**20**		35/35	35/35	50/50	50/50	50/50
NSXm F	**≤ 125**	**35**			50/50	65/65	65/65	65/65
NSXm N	**≤ 125**	**50**				65/65	65/65	65/65
NSX100 B	**≤ 25**	**25**		35/35	35/35	50/50	50/50	50/50
TM-D	**40 - 100**			35/35	35/35	36/50	36/50	36/50
NSX100 F	**≤ 25**	**36**			50/50	65/65	90/90	130/130
TM-D	**40 - 100**				36/50	36/65	36/90	36/130
NSX100 N	**≤ 25**	**50**				65/65	90/90	130/130
TM-D	**40 - 100**					36/65	36/90	36/130
NSX100 H	**≤ 25**	**70**					90/90	130/130
TM-D	**40 - 100**						36/90	36/130
NSX100 S	**≤ 25**	**100**						130/130
TM-D	**40 - 100**							36/130
NSX100 B MicroLogic		**25**		2/35	2/35	2/50	2/50	2/50
NSX100 F MicroLogic		**36**			2/50	2/50	2/90	2/130
NSX100 N MicroLogic		**50**				2/65	2/90	2/130
NSX100 H MicroLogic		**70**					2/90	2/130
NSX100 S MicroLogic		**100**						2/130

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".

Selectivity enhanced by cascading

Upstream: Com**Pact** NSX400, NSX630, MicroLogic
Downstream: Com**Pact** NSXm, NSX100, NSX160, NSX250

Ue: 440 V AC

Upstream CB		NSX400					NSX630				
		F	N	H	S	L	F	N	H	S	L
	Icu (kA)	30	42	65	90	130	30	42	65	90	130
	Trip unit	MicroLogic [1]									
	Rating (A)	400	400	400	400	400	630	630	630	630	630

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)									
CB type	Trip unit	Icu (kA)										
NSXm E	TM-D	10	20/20	30/30	30/30	30/30	30/30	20/20	30/30	30/30	30/30	30/30
NSXm B	TM-D	20	30/30	30/30	50/50	50/50	50/50	30/30	30/30	50/50	50/50	50/50
NSXm F	TM-D	35		42/42	65/65	65/65	65/65		42/42	65/65	65/65	65/65
NSXm N	TM-D	50			65/65	65/65	65/65			65/65	65/65	65/65
NSXm E	MicroLogic	10	20/20	30/30	30/30	30/30	30/30	20/20	30/30	30/30	30/30	30/30
NSXm B	MicroLogic	20	30/30	30/30	50/50	50/50	50/50	30/30	30/30	50/50	50/50	50/50
NSXm F	MicroLogic	35		42/42	65/65	65/65	65/65		42/42	65/65	65/65	65/65
NSXm N	MicroLogic	50			65/65	65/65	65/65			65/65	65/65	65/65
NSX100 B	TM-D	20	30/30	30/30	50/50	50/50	50/50	30/30	30/30	50/50	50/50	50/50
NSX100 F	TM-D	35		42/42	65/65	90/90	130/130		42/42	65/65	90/90	130/130
NSX100 N	TM-D	50			65/65	90/90	130/130			65/65	90/90	130/130
NSX100 H	TM-D	65				90/90	130/130				90/90	130/130
NSX100 S	TM-D	90					130/130					130/130
NSX160 B	TM-D	20	30/30	30/30	50/50	50/50	50/50	30/30	30/30	50/50	50/50	50/50
NSX160 F	TM-D	35		42/42	65/65	90/90	130/130		42/42	65/65	90/90	130/130
NSX160 N	TM-D	50			65/65	90/90	130/130			65/65	90/90	130/130
NSX160 H	TM-D	65				90/90	130/130				90/90	130/130
NSX160 S	TM-D	90					130/130					130/130
NSX250 B	TM-D	20						30/30	30/30	50/50	50/50	50/50
NSX250 F	TM-D	35							42/42	65/65	90/90	130/130
NSX250 N	TM-D	50								65/65	90/90	130/130
NSX250 H	TM-D	65									90/90	130/130
NSX250 S	TM-D	90										130/130
NSX100 B	MicroLogic	20	30/30	30/30	50/50	50/50	50/50	30/30	30/30	50/50	50/50	50/50
NSX100 F	MicroLogic	35		42/42	65/65	90/90	130/130		42/42	65/65	90/90	130/130
NSX100 N	MicroLogic	50			65/65	90/90	130/130			65/65	90/90	130/130
NSX100 H	MicroLogic	65				90/90	130/130				90/90	130/130
NSX100 S	MicroLogic	90					130/130					130/130
NSX160 B	MicroLogic	20	30/30	30/30	50/50	50/50	50/50	30/30	30/30	50/50	50/50	50/50
NSX160 F	MicroLogic	35		42/42	65/65	90/90	130/130		42/42	65/65	90/90	130/130
NSX160 N	MicroLogic	50			65/65	90/90	130/130			65/65	90/90	130/130
NSX160 H	MicroLogic	65				90/90	130/130				90/90	130/130
NSX160 S	MicroLogic	90					130/130					130/130
NSX250 B	MicroLogic	20						30/30	30/30	50/50	50/50	50/50
NSX250 F	MicroLogic	35							42/42	65/65	90/90	130/130
NSX250 N	MicroLogic	50								65/65	90/90	130/130
NSX250 H	MicroLogic	65									90/90	130/130
NSX250 S	MicroLogic	90										130/130

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".

[1] Applicable for all "Distribution" MicroLogic of ComPact NSX range: 2.3 4.3, 5.3, 6.3, 7.3. For 4.3 and 7.3 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) MicroLogic of ComPact NSX range but curves shall be checked Not applicable for "Motor" MicroLogic of ComPact NSX range ("M" type).

Selectivity enhanced by cascading

Upstream: ComPact NS800, NS1000, NS1250, NS1600, MicroLogic
Downstream: ComPact NSX100, NSX160, NSX250, NSX400, NSX630

Ue: 440 V AC

Upstream CB		NS800				NS1000			NS1250		NS1600	
		N	H	L	LB	N	H	L	N	H	N	H
	Icu (kA)	50	65	130	200	50	65	130	50	65	50	65
	Trip unit	MicroLogic										
	Rating (A)	800	800	800	800	1000	1000	1000	1250	1250	1600	1600

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)										
CB type	Trip unit	Icu (kA)											
NSX100 B	TM-D / MicroLogic	20	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
NSX100 F	TM-D / MicroLogic	35	50/50	65/65	130/130	130/130	50/50	65/65	130/130	50/50	65/65	50/50	65/65
NSX100 N	TM-D / MicroLogic	50		65/65	130/130	130/130		65/65	130/130		65/65		65/65
NSX100 H	TM-D / MicroLogic	65			130/130	130/130			130/130				
NSX100 S	TM-D / MicroLogic	90			130/130	200/200			130/130				
NSX100 L	TM-D / MicroLogic	130				200/200							
NSX160 B	TM-D / MicroLogic	20	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
NSX160 F	TM-D / MicroLogic	35	50/50	65/65	130/130	130/130	50/50	65/65	130/130	50/50	65/65	50/50	65/65
NSX160 N	TM-D / MicroLogic	50		65/65	130/130	130/130		65/65	130/130		65/65		65/65
NSX160 H	TM-D / MicroLogic	65			130/130	130/130			130/130				
NSX160 S	TM-D / MicroLogic	90			130/130	200/200			130/130				
NSX160 L	TM-D / MicroLogic	130				200/200							
NSX250 B	TM-D / MicroLogic	20	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
NSX250 F	TM-D / MicroLogic	35	50/50	65/65	130/130	130/130	50/50	65/65	130/130	50/50	65/65	50/50	65/65
NSX250 N	TM-D / MicroLogic	50		65/65	130/130	130/130		65/65	130/130		65/65		65/65
NSX250 H	TM-D / MicroLogic	65			130/130	130/130			130/130				
NSX250 S	TM-D / MicroLogic	90			130/130	200/200			130/130				
NSX250 L	TM-D / MicroLogic	130				200/200							
NSX400 F	MicroLogic	30	50/50	65/65	10/130	10/130	50/50	65/65	15/130	50/50	65/65	50/50	65/65
NSX400 N	MicroLogic	42		65/65	10/130	10/130		65/65	15/130		65/65		65/65
NSX400 H	MicroLogic	65			10/130	10/130			15/130				
NSX400 S	MicroLogic	90			10/130	10/200			15/130				
NSX400 L	MicroLogic	130				10/200							
NSX630 F	MicroLogic	30					50/50	65/65	10/130	50/50	65/65	50/50	65/65
NSX630 N	MicroLogic	42						65/65	10/130		65/65		65/65
NSX630 H	MicroLogic	65							10/130				
NSX630 S	MicroLogic	90							10/130				

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".

Selectivity enhanced by cascading

Upstream: ComPact NSX160, NSX250, TM-D
Downstream: iC60, C120, NG125

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream CB		NSX160											
		B		F		N		H		S		L	
	Icu (kA)	40		85		90		100		120		150	
	Trip unit	TM-D											
	Rating (A)	80-100	125-160	80-100	125-160	80-100	125-160	80-100	125-160	80-100	125-160	80-100	125-160
Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)										
CB type	Rating (A)	Icu (kA)											
iC60 N		20		30/30		40/40		60/60		60/60		60/60	
iC60 H		30		40/40		50/50		80/80		80/80		80/80	
iC60 L	≤ 25	50				65/65		80/80		80/80		80/80	
	32-40	36		40/40		65/65		80/80		80/80		80/80	
	50-63	30		40/40		65/65		80/80		80/80		80/80	
NG125 N	≤ 20	50				60/60		70/70		70/70		85/85	
	25 to 125	50											
NG125 H	≤ 20	70				85/85		85/85		85/85		100/100	
	25 to 80	70											

Upstream CB		NSX250					
		B	F	N	H	S	L
	Icu (kA)	40	85	90	100	120	150
	Trip unit	TM-D					
	Rating (A)	200-250	200-250	200-250	200-250	200-250	200-250
Downstream CB		Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)					
CB type	Rating (A)	Icu (kA)					
iC60 N		20	30/30	40/40	60/60	60/60	60/60	60/60
iC60 H		30	40/40	50/50	65/65	65/65	65/65	65/65
iC60 L	≤ 25	50		65/65	80/80	80/80	80/80	80/80
	32-40	36	40/40	65/65	80/80	80/80	80/80	80/80
	50-63	30	40/40	40/40	65/65	65/65	65/65	65/65
C120 N/H		20/30	40/40	40/40	50/50	50/50	70/70	70/70
NG125 N		50		60/60	70/70	70/70	85/85	85/85
NG125 H		70		85/85	85/85	85/85	100/100	100/100

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".

Selectivity enhanced by cascading

Upstream: ComPact NSX100, NSX160, NSX250, MicroLogic
Downstream: iC60, C120, NG125

A

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream CB		NSX100											
		B		F		N		H		S		L	
	Icu (kA)	40		85		90		100		120		150	
	Trip unit	MicroLogic [1]											
	Rating (A)	40	100	40	100	40	100	40	100	40	100	40	100

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)											
CB type	Rating (A)	Icu (kA)												
iC60 N	≤ 25	20	40/40	40/40	40/40	40/40	60/60	60/60	60/60	60/60	60/60	60/60	60/60	60/60
	32-40	20		40/40		40/40		60/60		60/60		60/60		60/60
	50-63	20												
iC60 H	≤ 25	30	40/40	40/40	50/50	50/50	80/80	80/80	80/80	80/80	80/80	80/80	80/80	80/80
	32-40	30		40/40		50/50		80/80		80/80		80/80		80/80
	50-63	30												
iC60 L	≤ 25	50			65/65	65/65	80/80	80/80	80/80	80/80	80/80	80/80	80/80	80/80
	32-40	36				65/65		80/80		80/80		80/80		80/80
	50-63	30												

Upstream CB		NSX160											
		B		F		N		H		S		L	
	Icu (kA)	40		85		90		100		120		150	
	Trip unit	MicroLogic [1]											
	Rating (A)	80	160	80	160	80	160	80	160	80	160	80	160

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)											
CB type	Rating (A)	Icu (kA)												
iC60 N	≤ 50	20	40/40	40/40	40/40	40/40	60/60	60/60	60/60	60/60	60/60	60/60	60/60	60/60
	63	20		40/40		40/40		60/60		60/60		60/60		60/60
iC60 H	≤ 50	30	40/40	40/40	50/50	50/50	80/80	80/80	80/80	80/80	80/80	80/80	80/80	80/80
	63	30		40/40		50/50		80/80		80/80		80/80		80/80
iC60 L	≤ 40	36			65/65	65/65	80/80	80/80	80/80	80/80	80/80	80/80	80/80	80/80
	50	30	40/40	40/40	65/65	65/65	80/80	80/80	80/80	80/80	80/80	80/80	80/80	80/80
	63	30		40/40		65/65		80/80		80/80		80/80		80/80

Upstream CB		NSX250					
		B	F	N	H	S	L
	Icu (kA)	40	85	90	100	120	150
	Trip unit	MicroLogic [1]					
	Rating (A)	250	250	250	250	250	250

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)					
CB type	Rating (A)	Icu (kA)						
iC60 N		20	40/40	40/40	60/60	60/60	60/60	60/60
iC60 H		30	40/40	50/50	65/65	65/65	65/65	65/65
iC60 L	≤ 25	50		65/65	80/80	80/80	80/80	80/80
	32-40	36		65/65	80/80	80/80	80/80	80/80
	50-63	30	40/40	65/65	65/65	65/65	65/65	65/65
C120 N/H		20/30	40/40	40/40	50/50	50/50	70/70	70/70
NG125 N		50		60/60	70/70	70/70	85/85	85/85
NG125 H		70		85/85	85/85	85/85	100/100	100/100

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".
[1] Applicable for all "Distribution" MicroLogic of ComPact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) MicroLogic of ComPact NSX range but curves shall be checked. Not applicable for "Motor" MicroLogic of ComPact NSX range ("M" type).

Selectivity enhanced by cascading

Upstream: ComPact NSX250, TM-D, MicroLogic
Downstream: ComPact NSXm, NSX100

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream CB		NSX250					
		B	F	N	H	S	L
	Icu (kA)	40	85	90	100	120	150
	Trip unit	TM-D					
	Rating (A)	200-250	200-250	200-250	200-250	200-250	200-250

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)					
CB type	Rating (A)	Icu (kA)						
NSXm E		25	40/40	85/85	85/85	85/85	85/85	85/85
NSXm B		50		85/85	90/90	100/100	100/100	100/100
NSXm F		85			90/90	100/100	100/100	100/100
NSXm N		90				100/100	100/100	100/100
NSX100 B	≤ 25	40		85/85	90/90	100/100	100/100	100/100
TM-D	40 - 100			36/85	36/90	36/100	36/100	36/100
NSX100 F	≤ 25	85			90/90	100/100	120/120	150/150
TM-D	40 - 100				36/90	36/100	36/120	36/150
NSX100 N	≤ 25	90				100/100	120/120	150/150
TM-D	40 - 100					36/100	36/120	36/150
NSX100 H	≤ 25	100					120/120	150/150
TM-D	40 - 100						36/120	36/150
NSX100 S	≤ 25	120						150/150
TM-D	40 - 100							36/150
NSX100 B MicroLogic		40		2/85	2/90	2/100	2/100	2/100
NSX100 F MicroLogic		85			2/90	2/100	2/120	2/150
NSX100 N MicroLogic		90				2/100	2/120	2/150
NSX100 H MicroLogic		100					2/120	2/150
NSX100 S MicroLogic		120						2/150

Upstream CB		NSX250					
		B	F	N	H	S	L
	Icu (kA)	40	85	90	100	120	150
	Trip unit	MicroLogic [1]					
	Rating (A)	200-250	200-250	200-250	200-250	200-250	200-250

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)					
CB type	Rating (A)	Icu (kA)						
NSXm E	≤ 125	25	40/40	85/85	85/85	85/85	85/85	85/85
NSXm B	≤ 125	50		85/85	90/90	100/100	100/100	100/100
NSXm F	≤ 125	85			90/90	100/100	100/100	100/100
NSXm N	≤ 125	90				100/100	100/100	100/100
NSX100 B	≤ 25	40		85/85	90/90	100/100	100/100	100/100
TM-D	40-100			36/85	36/90	36/100	36/100	36/100
NSX100 F	≤ 25	85			90/90	100/100	120/120	150/150
TM-D	40-100				36/90	36/100	36/120	36/150
NSX100 N	≤ 25	90				100/100	120/120	150/150
TM-D	40-100					36/100	36/120	36/150
NSX100 H	≤ 25	100					120/120	150/150
TM-D	40-100						36/120	36/150
NSX100 S	≤ 25	120						150/150
TM-D	40-100							36/150
NSX100 B MicroLogic		40		36/85	36/90	36/100	36/100	36/100
NSX100 F MicroLogic		85			36/90	36/100	36/120	36/150
NSX100 N MicroLogic		90				36/100	36/120	36/150
NSX100 H MicroLogic		100					36/120	36/150
NSX100 S	120	120						36/150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".

[1] Applicable for all "Distribution" MicroLogic of ComPact NSX range: 2.2 4.2, 5.2, 6.2, 7.2. For 4.2 and 7.2 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) MicroLogic of ComPact NSX range but curves shall be checked. Not applicable for "Motor" MicroLogic of ComPact NSX range ("M" type).

Selectivity enhanced by Cascading

Upstream: ComPact NSX400, NSX630, NS800L, NS800LB, NS1000L, MicroLogic
Downstream: ComPact NSX100, NSX160, NSX250, NSX400, NSX630

A

Ue: 220-240 V AC
(Ph/N 110-130 V AC)

Upstream CB		NSX400				NSX630				NS800		NS1000
		N	H	S	L	N	H	S	L	L	LB	L
	Icu (kA)	85	100	120	150	85	100	120	150	150	200	150
	Trip unit	MicroLogic [1]										
	Rating (A)	400	400	400	400	630	630	630	630	800		1000

Downstream CB			Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)										
CB type	Trip unit	Icu (kA)											
NSX100 B	TM-D	40	85/85	90/90	100/100	100/100	85/85	90/90	100/100	100/100	50/50	50/50	50/50
NSX100 F	TM-D	85		90/90	120/120	150/150		90/90	120/120	150/150	150/150	150/150	150/150
NSX100 N	TM-D	90		100/100	120/120	150/150		100/100	120/120	150/150	150/150	150/150	150/150
NSX100 H	TM-D	100			120/120	150/150			120/120	150/150	150/150	150/150	150/150
NSX100 S	TM-D	120				150/150				150/150	150/150	200/200	150/150
NSX100 L	TM-D	150										200/200	
NSX160 B	TM-D	40	85/85	90/90	100/100	100/100	85/85	90/90	100/100	100/100	50/50	50/50	50/50
NSX160 F	TM-D	85		90/90	120/120	150/150		90/90	120/120	150/150	150/150	150/150	150/150
NSX160 N	TM-D	90		100/100	120/120	150/150		100/100	120/120	150/150	150/150	150/150	150/150
NSX160 H	TM-D	100			120/120	150/150			120/120	150/150	150/150	150/150	150/150
NSX160 S	TM-D	120				150/150				150/150	150/150	200/200	150/150
NSX160 L	TM-D	150										200/200	
NSX250 B	TM-D	40					85/85	90/90	100/100	100/100	50/50	50/50	50/50
NSX250 F	TM-D	85						90/90	120/120	150/150	150/150	150/150	150/150
NSX250 N	TM-D	90						100/100	120/120	150/150	150/150	150/150	150/150
NSX250 H	TM-D	100							120/120	150/150	150/150	150/150	150/150
NSX250 S	TM-D	120								150/150	150/150	200/200	150/150
NSX250 L	TM-D	150										200/200	
NSX100 B	MicroLogic	40	85/85	90/90	100/100	100/100	85/85	90/90	100/100	100/100	50/50	50/50	50/50
NSX100 F	MicroLogic	85		90/90	120/120	150/150		90/90	120/120	150/150	150/150	150/150	150/150
NSX100 N	MicroLogic	90		100/100	120/120	150/150		100/100	120/120	150/150	150/150	150/150	150/150
NSX100 H	MicroLogic	100			120/120	150/150			120/120	150/150	150/150	150/150	150/150
NSX100 S	MicroLogic	120				150/150				150/150	150/150	200/200	150/150
NSX100 L	MicroLogic	150										200/200	
NSX160 B	MicroLogic	40	85/85	90/90	100/100	100/100	85/85	90/90	100/100	100/100	50/50	50/50	50/50
NSX160 F	MicroLogic	85		90/90	120/120	150/150		90/90	120/120	150/150	150/150	150/150	150/150
NSX160 N	MicroLogic	90		100/100	120/120	150/150		100/100	120/120	150/150	150/150	150/150	150/150
NSX160 H	MicroLogic	100			120/120	150/150			120/120	150/150	150/150	150/150	150/150
NSX160 S	MicroLogic	120				150/150				150/150	150/150	200/200	150/150
NSX160 L	MicroLogic	150										200/200	
NSX250 B	MicroLogic	40					85/85	90/90	100/100	100/100	50/50	50/50	50/50
NSX250 F	MicroLogic	85						90/90	120/120	150/150	150/150	150/150	150/150
NSX250 N	MicroLogic	90						100/100	120/120	150/150	150/150	150/150	150/150
NSX250 H	MicroLogic	100							120/120	150/150	150/150	150/150	150/150
NSX250 S	MicroLogic	120								150/150	150/150	200/200	150/150
NSX250 L	MicroLogic	150										200/200	
NSX400 F	MicroLogic	40									10/150	10/150	15/150
NSX400 N	MicroLogic	85									10/150	10/150	15/150
NSX400 H	MicroLogic	100									10/150	10/150	15/150
NSX400 S	MicroLogic	120									10/150	10/200	15/150
NSX400 L	MicroLogic	150										10/200	
NSX630 F	MicroLogic	40											10/150
NSX630 N	MicroLogic	85											10/150
NSX630 H	MicroLogic	100											10/150
NSX630 S	MicroLogic	120											10/150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online "Electrical calculation tools".
[1] Applicable for all "Distribution" MicroLogic of ComPact NSX range: 2.3 4.3, 5.3, 6.3, 7.3. For 4.3 and 7.3 selectivity rules for RCD apply in addition. Applicable for Generators and Service connection (G and AB type) MicroLogic of ComPact NSX range but curves shall be checked Not applicable for "Motor" MicroLogic of ComPact NSX range ("M" type).

Motor protection selectivity

Motor protection selectivity tables

See introduction page A7 for condition of use of selectivity tables.

Upstream	ComPact							
	NSXm	NSX				NS		
	16-160	100-250	100 -160	250	400-630	630b-1600	630b-1000	1600-3200
	All breaking capacities					N/H	L	N
Downstream	TM-D & MicroLogic 4.1	TMD	MicroLogic			MicroLogic		
Tesys GV2 ME01...ME32	page B-3	page B-5	page B-7	page B-9	page B-9	page B-11	page B-12	page B-13
Tesys GV2 P01...P32								
Tesys U LUB12 + LUC●6...12								
Tesys U LUB32 + LUC●6...32								
Tesys GV3 P13...P65								
Tesys GV4 P/PE/PEM 02-115								
ComPact NSX100 F/N/H/S/L/R MicroLogic 2.2M 6.2M								
ComPact NSX160 F/N/H/S/L MicroLogic 2.2M 6.2M								
ComPact NSX250 F/N/H/S/L/R MicroLogic 2.2M 6.2M								
ComPact NSX400F/N/H/S/L/R MicroLogic 2.3 6.3M 320								
ComPact NSX630F/N/H/S/L/R MicroLogic 2.3M 6.3M								
iC60 L MA1.6…MA40 + LRD	page B-10	page B-6	page B-8	page B-10	page B-10			
NG125L MA2.5...MA63 + LRD								
Tesys GV2 L03...L32 + LRD								
Tesys GV3 L25...L65 + LRD								
Tesys GV4 L/LE 02-115 +LRD								
ComPact NSX100F/N/H/S/L MA 2.5...MA6.3 + LRD								
ComPact NSX100F/N/H/S/L/R MA12.5...MA100 + LRD								
ComPact NSX160F/N/H/S/L MA150 + LR9D/F								
ComPact NSX250F/N/H/S/L/R MA220+LR9D/F								
ComPact NSX400F/N/H/S/L/R 1.3M +LR9F								
ComPact NSX630 F/N/H/S/L/R 1.3M +LR9F								

Motor protection selectivity

Upstream	MasterPact						
	MTZ1		MTZ2			MTZ3	
	06-16	06-10	08-20	25-40	25-40	40-63	40-63
	H1/H2/H3	L1	N1/H1/H2/L1	H1/H2	H3	H1	H2
Downstream	MicroLogic		MicroLogic		MicroLogic		
Tesys GV2 ME01...ME32	page B-14	page B-15	page B-16	page B-17	page B-18	page B-17	page B-18
Tesys GV2 P01...P32							
Tesys U LUB12 + LUC●6...12							
Tesys U LUB32 + LUC●6...32							
Tesys GV3 P13...P65							
Tesys GV4 P/PE/PEM 02-115							
ComPact NSX100 F/N/H/S/L/R MicroLogic 2.2M 6.2M							
ComPact NSX160 F/N/H/S/L MicroLogic 2.2M 6.2M							
ComPact NSX250 F/N/H/S/L/R MicroLogic 2.2M 6.2M							
ComPact NSX400F/N/H/S/L/R MicroLogic 2.3 6.3M 320							
ComPact NSX630F/N/H/S/L/R MicroLogic 2.3M 6.3M							
iC60 L MA1.6…MA40 + LRD							
NG125L MA2.5...MA63 + LRD							
GV2 L03...L32 + LRD							
GV3 L25...L65 + LRD							
GV4 L/LE 02-115 +LRD							
ComPact NSX100F/N/H/S/L MA 2.5...MA6.3 + LRD							
ComPact NSX100F/N/H/S/L/R MA12.5...MA100 + LRD							
ComPact NSX160F/N/H/S/L MA150 + LR9D/F							
ComPact NSX250F/N/H/S/L/R MA220+LR9D/F							
ComPact NSX400F/N/H/S/L/R 1.3M +LR9F							
ComPact NSX630 F/N/H/S/L/R 1.3M +LR9F							

Motor protection selectivity

Upstream: ComPact NSXm TM-D, MicroLogic 4.1
Downstream: GV2ME/P, GV3P, GV4P/PE/PEM, LUB12, LUB32
Ue ≤ 440 V AC

Upstream CB	NSXm E/B/F/N/H										NSXm E/B/F/N/H			
Trip unit type	TM-D										MicroLogic 4.1			
Trip unit rating (A)	16	25	32	40	50	63	80	100	125	160	25	50	100	160
Setting Ir (A)	16	25	32	40	50	63	80	100	125	160	23	50	100	160

Downstream CB			Selectivity limit (kA)													
CB type Trip unit type	CB rating (A)	Setting range (A)														
GV2 ME/P	01	0.1...0.16	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	02	0.16...0.25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	03	0.25...0.40	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	04	0.40...0.63	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	05	0.63...1	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	06	1...1.6	0.5	T	T	T	T	T	T	T	T	T	0.38	0.75	T	T
GV2 ME/P	07	1.6...2.5	0.5	0.5	0.5	T	T	T	T	T	T	T	0.38	0.75	T	T
GV2 ME/P	08	2.5...4	0.5	0.5	0.5	0.5	0.6	0.8	T	T	T	T	0.38	0.75	T	T
GV2 ME/P	10	4...6.3		0.5	0.5	0.5	0.6	0.8	T	T	T	T	0.38	0.75	T	T
GV2 ME/P	14	06...10			0.5	0.5	0.6	0.8	8	8	10	10	0.38	0.75	T	T
GV2 ME/P	16	9...14					0.6	0.8	5	5	8	8		0.75	T	T
GV2 ME/P	20	13...18						0.8	4	4	7	7			T	T
GV2 ME/P	21	17...23						0.8	3	3	3	3			T	T
GV2 ME/P	22	20...25							3	3	3	3			T	T
GV2 ME/P	32	24...32								2	2	2			1.5	T
GV3 P	13	01...13					0.6	0.8	4	4	5	6		0.75	1.5	T
GV3 P	18	12...18						0.8	3	3	4	4			1.5	30
GV3 P	25	17...25							2	2	3	3			1.5	10
GV3 P	32	23...32								1	1.2	1.25				10
GV3 P	40	30...40									1.25	1.25				10
GV3 P	50	37...50										1.25				10
GV3 P	65	48...65														
GV4P/PE/PEM	02	0.8...2	0.5	0.5	0.5	0.5	0.6	T	T	T	T	T	0.38	T	T	T
GV4P/PE/PEM	03	1.4...3.5	0.5	0.5	0.5	0.5	0.6	5	T	T	T	T	0.38	3	3.5	T
GV4P/PE/PEM	07	2.9...7		0.5	0.5	0.5	0.6	0.8	3	4	4	4	0.38	2	2	4
GV4P/PE/PEM	12	5...12.5					0.6	0.8	1	1	3	3		0.75	1.5	2.4
GV4P/PE/PEM	25	10...25							1	1	1.25	1.25			1.5	2.4
GV4P/PE/PEM	50	20...50										1.25				2.4
GV4P/PE/PEM	80	40...80														
GV4P/PE/PEM	115	65...115														
LUB12 + LUC●	X6	0.15...0.6	0.5	0.5	0.5	0.5	0.6	0.8	36	36	36	36	0.25	0.75	1.5	36
LUB12 + LUC●	1X	0.35…1.4	0.5	0.5	0.5	0.5	0.6	0.8	36	36	36	36	0.25	0.75	1.5	36
LUB12 + LUC●	05	1.25…5	0.5	0.5	0.5	0.5	0.6	0.8	36	36	36	36	0.25	0.75	1.5	36
LUB12 + LUC●	12	3…12	0.5	0.5	0.5	0.5	0.6	0.8	36	36	36	36	0.25	0.75	1.5	36
LUB32 + LUC●	X6	0.15…0.6	0.5	0.5	0.5	0.5	0.6	0.8	1	1	1.25	1.25	0.25	0.75	1.5	20
LUB32 + LUC●	1X	0.35…1.4	0.5	0.5	0.5	0.5	0.6	0.8	1	1	1.25	1.25	0.25	0.75	1.5	20
LUB32 + LUC●	05	1.25…5	0.5	0.5	0.5	0.5	0.6	0.8	1	1	1.25	1.25	0.25	0.75	1.5	20
LUB32 + LUC●	12	3…12			0.5	0.5	0.6	0.8	1	1	1.25	1.25		0.75	1.5	20
LUB32 + LUC●	18	4.5…18						0.8	1	1	1.25	1.25			1.5	20
LUB32 + LUC●	32	8…32								1	1.25	1.25			1.5	20

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Motor protection selectivity

Upstream: ComPact NSXm TM-D, MicroLogic 4.1

Downstream: iC60L MA, NG125L MA, GV2L/LE, GV3L, GV4L/LE

Ue ⩽ 440 V AC

Upstream CB	NSXm E/B/F/N/H										NSXm E/B/F/N/H			
Trip unit type	TM-D										MicroLogic 4.1			
Trip unit rating (A)	16	25	32	40	50	63	80	100	125	160	25	50	100	160
Setting Ir (A)	16	25	32	40	50	63	80	100	125	160	25	50	100	160

Downstream CB				Selectivity limit (kA)													
CB type	CB rating (A)	Th Relay	Setting range (A)														
iC60L MA	1.6	LRD6	1...1.6	0.5	T	T	T	T	T	T	T	T	T	5	5	T	T
iC60L MA	2.5	LRD7	1.6...2.5	0.5	0.5	0.5	T	T	T	T	T	T	T	0.375	0.75	T	T
iC60L MA	4	LRD8	2.5...4	0.5	0.5	0.5	0.5	0.6	0.8	T	T	T	T	0.375	0.75	T	T
iC60L MA	6.3	LRD10	4...6.3		0.5	0.5	0.5	0.6	0.8	1	1	1.25	1.25	0.38	0.75	1,5	T
iC60L MA	10	LRD12	5.5...8		0.5	0.5	0.5	0.6	0.8	1	1	1.25	1.25	0.38	0.75	1,5	T
iC60L MA	10	LRD14	07...10			0.5	0.5	0.6	0.8	1	1	1.25	1.25		0.75	1,5	T
iC60L MA	12.5	LRD16	9...13				0.5	0.6	0.8	1	1	1.25	1.25		0.75	1,5	T
iC60L MA	16	LRD21	12...18					0.6	0.8	1	1	1.25	1.25			1,5	T
iC60L MA	25	LRD22	17...25							1	1	1.25	1.25			1,5	T
iC60L MA	40	LRD32	23...32								1	1.25	1.25			1,5	T
iC60L MA	40	LRD3355	30...40									1.25	1.25				T
NG125L MA	40	LRD32	23...32								1	1.25	1.25			1.5	T
NG125L MA	40	LRD3355	30...40									1.25	1.25				T
NG125L MA	63	LRD3357	37...50										1.25				T
NG125L MA	63	LRD3359	48...65														
GV2 L/LE	03	LRD3	0.25...0.40	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	04	LRD4	0.40...0.63	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	05	LRD5	0.63...1	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	06	LRD6	1...1.6	0.5	T	T	T	T	T	T	T	T	T	0.38	0.75	T	T
GV2 L/LE	07	LRD7	1.6...2.5	0.5	0.5	0.5	T	T	T	T	T	T	T	0.38	0.75	T	T
GV2 L/LE	08	LRD8	2.5...4	0.5	0.5	0.5	0.5	0.6	0.8	T	T	T	T	0.38	0.75	T	T
GV2 L/LE	10	LRD10	4...6.3		0.5	0.5	0.5	0.6	0.8	T	T	T	T	0.38	0.75	T	T
GV2 L/LE	14	LRD14	07...10			0.5	0.5	0.6	0.8	10	10	T	T	0.38	0.75	T	T
GV2 L/LE	16	LRD16	9...13					0.6	0.8	7	7	10	10		0.75	T	T
GV2 L/LE	20	LRD21	12...18						0.8	5	5	8	8			T	T
GV2 L/LE	22	LRD22	17...25							3	3	3	3			T	T
GV2 L/LE	32	LRD32	23...32								2	2	2			1.5	T
GV3 L	25	LRD22	20...25							2	2	3	3			1.5	10
GV3 L	32	LRD32	23...32								1	1.2	1.25			1.5	10
GV3 L	40	LRD340	30...40									1.25	1.25				10
GV3 L	50	LRD350	37...50										1.25				10
GV3 L	65	LRD365	48...65														
GV4 L/LE	02	LRD-07	1.6...2.5	0.5	0.5	0.5	0.5	0.6	T	T	T	T	T	0.38	T	T	T
GV4 L/LE	03	LRD-08	2.5...4	0.5	0.5	0.5	0.5	0.6	5	T	T	T	T	0.38	3	3.5	T
GV4 L/LE	07	LRD-12	5.5...8		0.5	0.5	0.5	0.6	0.8	3	4	4	4	0.38	2	2	4
GV4 L/LE	12	LRD-313	9...13					0.6	0.8	1	1	3	3			1.5	2.4
GV4 L/LE	25	LRD-325	17...25							1	1	1.25	1.25			1.5	2.4
GV4 L/LE	50	LRD-350	37...50										1.25				2.4
GV4 L/LE	80	LRD-33 63	63...80														
GV4 L/LE	115	LR9D-5369 or LR9F-5369	90...150														

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

No selectivity.

Motor protection selectivity

Upstream: Com**Pact** NSX100 to 250 TM-D

Downstream: GV2, GV3, GV4, LUB12, LUB32, Integral 63, Com**Pact** NSX100 to 250

Ue ⩽ 440 V AC

Upstream CB	NSX100B/F/N/H/S/L/R								NSX160B/F/N/H/S/L				NSX250B/F/N/H/S/L/R		
Trip unit type	TM-D														
Trip unit rating (A)	16	25	32	40	50	63	80	100	80	100	125	160	160	200	250
Setting Ir (A)	16	25	32	40	50	63	80	100	80	100	125	160	160	200	250

Downstream CB			Selectivity limit (kA)														
CB type	CB rating (A) or Trip unit type	Setting range (A)															
GV2 ME/P	01	0.1...0.16	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	02	0.16...0.25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	03	0.25...0.40	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	04	0.40...0.63	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	05	0.63...1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	06	1...1.6	0.19	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	07	1.6...2.5	0.19	0.25	0.4	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	08	2.5...4	0.19	0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 ME/P	10	4...6.3		0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 ME/P	14	06...10			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 ME/P	16	9...14					0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 ME/P	20	13...18							0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 ME/P	21	17...23							0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 ME/P	22	20...25							0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 ME/P	32	24...32							0.63	0.8	0.63	0.8	T	T	T	T	T
GV3 P	13	01...13				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV3 P	18	12...18					0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV3 P	25	17...25						0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV3 P	32	23...32							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV3 P	40	30...40											1.25	1.25	1.25	T	T
GV3 P	50	37...50												1.25	1.25	T	T
GV3 P	65	48...65															T
GV4P/PE/PEM	02	0.8...2	0.19	0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4P/PE/PEM	03	1.4...3.5		0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4P/PE/PEM	07	2.9...7		0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4P/PE/PEM	12	5...12.5				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4P/PE/PEM	25	10...25							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4P/PE/PEM	50	20...50												1.25	1.25	T	T
GV4P/PE/PEM	80	40...80															T
GV4P/PE/PEM	115	65...115															
LUB12 + LUC●	X6	0.15...0.6	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
LUB12 + LUC●	1X	0.35…1.4	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
LUB12 + LUC●	05	1.25…5	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
LUB12 + LUC●	12	3…12				0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
LUB32 + LUC●	X6	0.15…0.6	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	5	5	5	T	T
LUB32 + LUC●	1X	0.35…1.4	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	5	5	5	T	T
LUB32 + LUC●	05	1.25…5	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	5	5	5	T	T
LUB32 + LUC●	12	3…12				0.5	0.5	0.5	0.63	0.8	0.63	0.8	5	5	5	T	T
LUB32 + LUC●	18	4.5…18						0.5	0.63	0.8	0.63	0.8	5	5	5	T	T
LUB32 + LUC●	32	8…32								0.8		0.8	5	5	5	T	T
Integral 63	LB1-LD03M16	1...13				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1	1	1	T	T
Integral 63	LB1-LD03M21	13...18						0.5	0.63	0.8	0.63	0.8	1	1	1	T	T
Integral 63	LB1-LD03M22	18...25							0.63	0.8	0.63	0.8	1	1	1	T	T
Integral 63	LB1-LD03M53	23...32									0.8	0.8	1	1	1	T	T
Integral 63	LB1-LD03M55	28...40											1	1	1	T	T
Integral 63	LB1-LD03M57	35...50												1	1	T	T
GV5P150F/H		150															2.5
GV5P220F/H		220															2.5
NSX100 F/N/H/S/L/R	Mic. 2.2M or 6.2EM	25...50									0.8	0.8	1	1	1	36	36
		100															36
NSX160 F/N/H/S/L/R	Mic. 2.2M or 6.2EM	100											1	1	1	2	2.5
		150															2.5
NSX250 F/N/H/S/L/R	Mic. 2.2M or 6.2EM	150											1	1	1	2	2.5
		220															2.5

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: ComPact NSX100 to 250 TM-D

Downstream: iC60L MA, NG125L MA, GV2, GV3, GV4, ComPact NSX100

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Upstream CB				NSX100B/F/N/H/S/L/R								NSX160B/F/N/H/S/L				NSX250B/F/N/H/S/L/R		
Trip unit type				TM-D														
Trip unit rating (A)				16	25	32	40	50	63	80	100	80	100	125	160	160	200	250
Setting Ir (A)				16	25	32	40	50	63	80	100	80	100	125	160	160	200	250
Downstream CB				Selectivity limit (kA)														
CB type	CB rating (A)	Th Relay	Setting range (A)															
iC60L MA	1.6	LRD6	1...1.6	0.19	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	2.5	LRD7	1.6...2.5	0.19	0.3	0.4	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	4	LRD8	2.5...4	0.19	0.3	0.4	0.5	0.5	0.5	0.63	T	0.63	T	T	T	T	T	T
iC60L MA	6.3	LRD10	4...6.3		0.3	0.4	0.5	0.5	0.5	0.63	5	0.63	5	T	T	T	T	T
iC60L MA	10	LRD12	5.5...8		0.3	0.4	0.5	0.5	0.5	0.63	2	0.63	2	T	T	T	T	T
iC60L MA	10	LRD14	07...10			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
iC60L MA	12.5	LRD16	9...13				0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
iC60L MA	16	LRD21	12...18						0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
iC60L MA	25	LRD22	17...25							0.63	0.8	0.63	0.8	T	T	T	T	T
iC60L MA	40	LRD32	23...32								0.8		0.8	T	T	T	T	T
iC60L MA	40	LRD3355	30...40											T	T	T	T	T
NG125L MA	1.6	LRD6	1...1.6	0.19	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	2.5	LRD7	1.6...2.5	0.19	0.3	0.4	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	4	LRD8	2.5...4	0.19	0.3	0.4	0.5	0.5	0.5	0.63	T	0.63	T	T	T	T	T	T
NG125L MA	6.3	LRD10	4...6.3		0.3	0.4	0.5	0.5	0.5	0.63	5	0.63	5	T	T	T	T	T
NG125L MA	10	LRD12	5.5...8		0.3	0.4	0.5	0.5	0.5	0.63	2	0.63	2	T	T	T	T	T
NG125L MA	10	LRD14	07...10			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
NG125L MA	12.5	LRD16	9...13				0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
NG125L MA	16	LRD21	12...18						0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
NG125L MA	25	LRD22	17...25							0.63	0.8	0.63	0.8	T	T	T	T	T
NG125L MA	40	LRD32	23...32								0.8		0.8	T	T	T	T	T
NG125L MA	40	LRD3355	30...40											T	T	T	T	T
NG125L MA	63	LRD3357	37...50												T	T	T	T
NG125L MA	63	LRD3359	48...65														T	T
GV2 L/LE	03	LRD3	0.25...0.40	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	04	LRD4	0.40...0.63	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	05	LRD5	0.63...1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	06	LRD6	1...1.6	0.19	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	07	LRD7	1.6...2.5	0.19	0.25	0.4	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	08	LRD8	2.5...4	0.19	0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 L/LE	10	LRD10	4...6.3		0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 L/LE	14	LRD14	07...10			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 L/LE	16	LRD16	9...13					0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 L/LE	20	LRD21	12...18							0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 L/LE	22	LRD22	17...25							0.63	0.8	0.63	0.8	T	T	T	T	T
GV2 L/LE	32	LRD32	23...32								0.8		0.8	T	T	T	T	T
GV3 L	25	LRD22	20...25							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV3 L	32	LRD32	23...32								0.8		0.8	1.25	1.25	1.25	T	T
GV3 L	40	LRD340	30...40											1.25	1.25	1.25	T	T
GV3 L	50	LRD350	37...50												1.25	1.25	T	T
GV3 L	65	LRD365	48...65														T	T
GV4 L/LE	02	LRD-07	1.6...2.5	0.19	0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4 L/LE	03	LRD-08	2.5...4		0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4 L/LE	07	LRD-12	5.5...8		0.25	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4 L/LE	12	LRD-313	9...13				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4 L/LE	25	LRD-325	17...25							0.63	0.8	0.63	0.8	1.25	1.25	1.25	T	T
GV4 L/LE	50	LRD-350	37...50												1.25	1.25	T	T
GV4 L/LE	80	LRD-33 63	63...80															T
GV4 L/LE	115	LR9D-5369 LR9F-5369	90...150															
NSX100 [1]	MA2.5	LRD6	1...1.6	0.19	0.3	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 [1]	MA2.5	LRD7	1.6...2.5	0.19	0.3	0.4	0.5	0.5	0.5	T	T	T	T	T	T	T	T	T
NSX100 [1]	MA6.3	LRD8	2.5...4	0.19	0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
NSX100 [1]	MA6.3	LRD10	4...6.3		0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	T	T	T	T	T
NSX100 [1]	MA12.5	LRD12	5.5...8		0.3	0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1	1	1	T	T
NSX100 [1]	MA12.5	LRD14	9...13			0.4	0.5	0.5	0.5	0.63	0.8	0.63	0.8	1	1	1	T	T
NSX100 [1]	MA12.5	LRD16	12...18				0.5	0.5	0.5	0.63	0.8	0.63	0.8	1	1	1	T	T
NSX100 [1]	MA25	LRD21	17...25						0.5	0.63	0.8	0.63	0.8	1	1	1	T	T
NSX100 [1]	MA25	LRD22	17...25							0.63	0.8	0.63	0.8	1	1	1	T	T
NSX100 [1]	MA50	LRD32	23...32								0.8		0.8	1	1	1	36	36
NSX100 [1]	MA50	LRD340	30...40											1	1	1	36	36
NSX100 [1]	MA50	LRD350	37...50												1	1	36	36
NSX100 [1]	MA100	LRD365	48...65														36	36
NSX100 [1]	MA100	LRD3363	63...80														36	36

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] F/N/H/S/L/R

Motor protection selectivity

Upstream: ComPact NSX100 to 160 MicroLogic

Downstream: GV2, GV3, GV4, LUB12, LUB32, Integral 63, ComPact NSX100 to 250

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Upstream CB	NSX100B/F/N/H/S/L/R							NSX160B/F/N/H/S/L				
Trip unit type	MicroLogic [1]											
Trip unit rating (A)	40			100				160				
Setting Ir (A)	16	25	40	40	63	80	100	63	80	100	125	160

Downstream CB			Selectivity limit (kA)											
CB type	CB rating (A) or Trip unit type	Setting range (A)												
GV2 ME/P	01	0.1...0.16	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	02	0.16...0.25	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	03	0.25...0.40	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	04	0.40...0.63	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	05	0.63...1	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	06	1...1.6	0.6	0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 ME/P	07	1.6...2.5	0.6	0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 ME/P	08	2.5...4	0.6	0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 ME/P	10	4...6.3		0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 ME/P	14	06...10			0.6	T	T	T	T	T	T	T	T	T
GV2 ME/P	16	9...14					T	T	T	T	T	T	T	T
GV2 ME/P	20	13...18					T	T	T	T	T	T	T	T
GV2 ME/P	21	17...23						T	T		T	T	T	T
GV2 ME/P	22	20...25						T	T		T	T	T	T
GV2 ME/P	32	24...32							T			T	T	T
GV3 P	13	01...13			0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
GV3 P	18	12...18					1.5	1.5	1.5	T	T	T	T	T
GV3 P	25	17...25							1.5	T	T	T	T	T
GV3 P	32	23...32									T	T	T	T
GV3 P	40	30...40											2.4	2.4
GV3 P	50	37...50												2.4
GV3 P	65	48...65												
GV4P/PE/PEM	02	0.8...2	T	T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	03	1.4...3.5	25	25	25	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	07	2.9...7		2	2	2	2	2	2	4	4	4	4	4
GV4P/PE/PEM	12	5...12.5					1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4
GV4P/PE/PEM	25	10...25						1.5	1.5		2.4	2.4	2.4	2.4
GV4P/PE/PEM	50	20...50												2.4
GV4P/PE/PEM	80	40...80												
GV4P/PE/PEM	115	65...115												
LUB12 + LUC●	X6	0.15...0.6	0.6	0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
LUB12 + LUC●	1X	0.35...1.4	0.6	0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
LUB12 + LUC●	05	1.25…5	0.6	0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
LUB12 + LUC●	12	3…12				1.5	1.5	1.5	1.5	T	T	T	T	T
LUB32 + LUC●	X6	0.15…0.6	0.6	0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
LUB32 + LUC●	1X	0.35…1.4	0.6	0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
LUB32 + LUC●	05	1.25…5	0.6	0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
LUB32 + LUC●	12	3…12				1.5	1.5	1.5	1.5	T	T	T	T	T
LUB32 + LUC●	18	4.5…18					1.5	1.5	1.5	T	T	T	T	T
LUB32 + LUC●	32	8…32							1.5			T	T	T
Integral 63	LB1-LD03M16	1...13			0.6	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4
Integral 63	LB1-LD03M21	13...18					1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4
Integral 63	LB1-LD03M22	18...25							1.5	1.5	2.4	2.4	2.4	2.4
Integral 63	LB1-LD03M53	23...32									1.5	2.4	2.4	2.4
Integral 63	LB1-LD03M55	28...40											2.4	2.4
Integral 63	LB1-LD03M57	35...50												2.4
Integral 63	LB1-LD03M61	45...63												
NSX100 F/N/H/S/L/R	Mic. 2.2M or 6.2EM	25...50							1.5			2.4	2.4	2.4
		100												
NSX160 F/N/H/S/L/R	Mic. 2.2M or 6.2EM	100										2.4	2.4	2.4
		150												
NSX250 F/N/H/S/L/R	Mic. 2.2M or 6.2EM	150												
		220												

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] Valid for all "Distribution" MicroLogic of ComPact NSX : 2.2, 4.2, 5.2, 6.2, 7.2. Valid for Generators (and Service connection (G and AB type) MicroLogic of ComPact NSX but curves shall be checked. Not Valid for "Motor" MicroLogic of ComPact NSX ("M" type).

Motor protection selectivity

Upstream: ComPact NSX100 to 160, MicroLogic
Downstream: iC60L MA, NG125L MA, GV2, GV3, GV4, ComPact NSX100

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Upstream CB				NSX100B/F/N/H/S/L/R							NSX160B/F/N/H/S/L				
Trip unit type				MicroLogic [1]											
Trip unit rating (A)				40			100				160				
Setting Ir (A)				16	25	40	40	63	80	100	63	80	100	125	160
Downstream CB				Selectivity limit (kA)											
CB type	CB rating (A)	Th Relay	Setting range (A)												
iC60L MA	1.6	LRD6	1...1.6	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	2.5	LRD7	1.6...2.5	1	1	1	T	T	T	T	T	T	T	T	T
iC60L MA	4	LRD8	2.5...4	0.6	0.6	0.6	T	T	T	T	T	T	T	T	T
iC60L MA	6.3	LRD10	4...6.3	0.6	0.6	0.6	5	5	5	5	T	T	T	T	T
iC60L MA	10	LRD12	5.5...8		0.6	0.6	2	2	2	2	T	T	T	T	T
iC60L MA	10	LRD14	07...10			0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
iC60L MA	12.5	LRD16	9...13			0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
iC60L MA	16	LRD21	12...18					1.5	1.5	1.5	T	T	T	T	T
iC60L MA	25	LRD22	17...25						1.5	1.5		T	T	T	T
iC60L MA	40	LRD32	23...32							1.5			T	T	T
iC60L MA	40	LRD3355	30...40											T	T
NG125L MA	1.6	LRD6	1...1.6	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	2.5	LRD7	1.6...2.5	1	1	1	T	T	T	T	T	T	T	T	T
NG125L MA	4	LRD8	2.5...4	0.6	0.6	0.6	T	T	T	T	T	T	T	T	T
NG125L MA	6.3	LRD10	4...6.3	0.6	0.6	0.6	5	5	5	5	T	T	T	T	T
NG125L MA	10	LRD12	5.5...8		0.6	0.6	2	2	2	2	T	T	T	T	T
NG125L MA	10	LRD14	07...10			0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
NG125L MA	12.5	LRD16	9...13			0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
NG125L MA	16	LRD21	12...18					1.5	1.5	1.5	T	T	T	T	T
NG125L MA	25	LRD22	17...25						1.5	1.5		T	T	T	T
NG125L MA	40	LRD32	23...32							1.5			T	T	T
NG125L MA	40	LRD3355	30...40										T	T	T
NG125L MA	63	LRD3357	37...50											T	T
NG125L MA	63	LRD3359	48...65												T
GV2 L/LE	03	LRD3	0.25...0.40	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	04	LRD4	0.40...0.63	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	05	LRD5	0.63...1	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	06	LRD6	1...1.6	0.6	0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 L/LE	07	LRD7	1.6...2.5	0.6	0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 L/LE	08	LRD8	2.5...4	0.6	0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 L/LE	10	LRD10	4...6.3		0.6	0.6	T	T	T	T	T	T	T	T	T
GV2 L/LE	14	LRD14	07...10			0.6	T	T	T	T	T	T	T	T	T
GV2 L/LE	16	LRD16	9...13					T	T	T	T	T	T	T	T
GV2 L/LE	20	LRD21	12...18						T	T	T	T	T	T	T
GV2 L/LE	22	LRD22	17...25						T	T	T	T	T	T	T
GV2 L/LE	32	LRD32	23...32							T	T	T	T	T	T
GV3 L	25	LRD22	20...25							1.5	1.5	T	T	T	T
GV3 L	32	LRD32	23...32									1.5	T	T	T
GV3 L	40	LRD340	30...40											2.4	2.4
GV3 L	50	LRD350	37...50												2.4
GV3 L	65	LRD365	48...65												
GV4 L/LE	02	LRD-07	1.6...2.5	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	03	LRD-08	2.5...4	25	25	25	T	T	T	T	T	T	T	T	T
GV4 L/LE	07	LRD-12	5.5...8		2	2	2	2	2	2	4	4	4	4	4
GV4 L/LE	12	LRD-313	9...13					1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4
GV4 L/LE	25	LRD-325	17...25						1.5	1.5		2.4	2.4	2.4	2.4
GV4 L/LE	50	LRD-350	37...50												2.4
GV4 L/LE	80	LRD-33 63	63...80												
GV4 L/LE	115	LR9D-5369 LR9-F5369	90...150												
NSX100	MA2.5	LRD6	1...1.6	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA2.5	LRD7	1.6...2.5	1	1	1	T	T	T	T	T	T	T	T	T
NSX100	MA6.3	LRD8	2.5...4	0.6	0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
NSX100	MA6.3	LRD10	4...6.3		0.6	0.6	1.5	1.5	1.5	1.5	T	T	T	T	T
NSX100	MA12.5	LRD12	5.5...8		0.6	0.6	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4
NSX100	MA12.5	LRD14	9...13			0.6	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4
NSX100	MA12.5	LRD16	12...18			0.6	1.5	1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4
NSX100	MA25	LRD21	17...25					1.5	1.5	1.5	2.4	2.4	2.4	2.4	2.4
NSX100	MA25	LRD22	17...25						1.5	1.5		2.4	2.4	2.4	2.4
NSX100	MA50	LRD32	23...32							1.5			2.4	2.4	2.4
NSX100	MA50	LRD340	30...40											2.4	2.4
NSX100	MA50	LRD350	37...50												2.4
NSX100	MA100	LRD365	48...65												
NSX100	MA100	LRD3363	63...80												

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] Valid for all "Distribution" MicroLogic of ComPact NSX : 2.2, 4.2, 5.2, 6.2, 7.2. Valid for Generators (and Service connection (G and AB type) MicroLogic of ComPact NSX but curves shall be checked. Not Valid for "Motor" MicroLogic of ComPact NSX ("M" type).

Motor protection selectivity

Upstream: ComPact NSX250 to 630 MicroLogic
Downstream: GV2, GV3, GV4, GV5, LUB12, LUB32, Integral 63, ComPact NSX100 to 250

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Upstream CB	NSX250B/F/N/H/S/L/R					NSX400F/N/H/S/L/R					NSX630F/N/H/S/L/R				
Trip unit type	MicroLogic [1]														
Trip unit rating (A)	250					400					630				
Setting Ir (A)	100	125	160	200	250	160	200	250	320	400	250	320	400	500	630

Downstream CB			Selectivity limit (kA)													
CB type Trip unit type	CB rating (A)	Setting range (A)														
GV2 ME/P	01	0.1...0.16	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	02	0.16...0.25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	03	0.25...0.40	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	04	0.40...0.63	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	05	0.63...1	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	06	1...1.6	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	07	1.6...2.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	08	2.5...4	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	10	4...6.3	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	14	06...10	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	16	9...14	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	20	13...18	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	21	17...23	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	22	20...25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME/P	32	24...32	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P	13	01...13	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P	18	12...18	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P	25	17...25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P	32	23...32	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P	40	30...40		T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P	50	37...50			T	T	T	T	T	T	T	T	T	T	T	T
GV3 P	65	48...65				T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	02	0.8...2	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	03	1.4...3.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	07	2.9...7	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	12	5...12.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	25	10...25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	50	20...50		T	T	T	T	T	T	T	T	T	T	T	T	T
GV4P/PE/PEM	80	40...80				T	T		T	T	T	T	T	T	T	T
GV4P/PE/PEM	115	65...115					T			T	T	T	T	T	T	T
LUB12 + LUC●	X6	0.15...0.6	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUC●	1X	0.35…1.4	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUC●	05	1.25…5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUC●	12	3…12	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUC●	X6	0.15…0.6	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUC●	1X	0.35…1.4	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUC●	05	1.25…5	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUC●	12	3…12	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUC●	18	4.5…18	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUC●	32	8…32	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Integral 63	LB1-LD03M16	1...13	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Integral 63	LB1-LD03M21	13...18	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Integral 63	LB1-LD03M22	18...25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Integral 63	LB1-LD03M53	23...32	T	T	T	T	T	T	T	T	T	T	T	T	T	T
Integral 63	LB1-LD03M55	28...40		T	T	T	T	T	T	T	T	T	T	T	T	T
Integral 63	LB1-LD03M57	35...50			T	T	T	T	T	T	T	T	T	T	T	T
Integral 63	LB1-LD03M61	45...63				T	T	T	T	T	T	T	T	T	T	T
GV5P150F/N		150									T			T	T	T
GV5P220F/N		220														T
NSX100 F/N/H/S/L/R	Mic. 2.2M or 6.2EM	25...50	36	36	36	36	36	T	T	T	T	T	T	T	T	T
		100					36			T	T	T	T	T	T	T
NSX160 F/N/H/S/L/R	Mic. 2.2M or 6.2EM	100					3			T	T	T	T	T	T	T
		150										T			T	T
NSX250 F/N/H/S/L/R	Mic. 2.2M or 6.2EM	150										4.8			T	T
		220														T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] Valid for all "Distribution" MicroLogic of ComPact NSX : 2.2/3, 4.2/3 5.2/3, 6.2/3, 7.2/3. Valid for Generators (and Service connection (G and AB type) MicroLogic of ComPact NSX but curves shall be checked. Not Valid for “Motor” MicroLogic of ComPact NSX ("M" type).

Motor protection selectivity

Upstream: ComPact NSX250 to 630 MicroLogic
Downstream: iC60L MA, NG125L MA, GV2, GV3, GV4, ComPact NSX100 to 250

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Upstream CB				NSX250B/F/N/H/S/L/R					NSX400F/N/H/S/L/R					NSX630F/N/H/S/L/R				
Trip unit type				MicroLogic [1]														
Trip unit rating (A)				250					400					630				
Setting Ir (A)				100	125	160	200	250	160	200	250	320	400	250	320	400	500	630
Downstream CB				Selectivity limit (kA)														
CB type	CB rating (A)	Th Relay	Setting range (A)															
iC60L MA	1.6	LRD6	1...1.6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	2.5	LRD7	1.6...2.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	4	LRD8	2.5...4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	6.3	LRD10	4...6.3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	10	LRD12	5.5...8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	10	LRD14	07...10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	12.5	LRD16	9...13	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	16	LRD21	12...18	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	25	LRD22	17...25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	40	LRD32	23...32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
iC60L MA	40	LRD3355	30...40		T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	1.6	LRD6	1...1.6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	2.5	LRD7	1.6...2.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	4	LRD8	2.5...4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	6.3	LRD10	4...6.3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	10	LRD12	5.5...8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	10	LRD14	07...10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	12.5	LRD16	9...13	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	16	LRD21	12...18	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	25	LRD22	17...25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	40	LRD32	23...32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	40	LRD3355	30...40		T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	63	LRD3357	37...50			T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA	63	LRD3359	48...65				T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	03	LRD3	0.25...0.40	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	04	LRD4	0.40...0.63	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	05	LRD5	0.63...1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	06	LRD6	1...1.6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	07	LRD7	1.6...2.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	08	LRD8	2.5...4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	10	LRD10	4...6.3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	14	LRD14	07...10	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	16	LRD16	9...13	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	20	LRD21	12...18	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	22	LRD22	17...25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L/LE	32	LRD32	23...32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L	25	LRD22	20...25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L	32	LRD32	23...32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L	40	LRD340	30...40		T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L	50	LRD350	37...50			T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L	65	LRD365	48...65				T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	02	LRD-07	1.6...2.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	03	LRD-08	2.5...4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	07	LRD-12	5.5...8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	12	LRD-313	9...13	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	25	LRD-325	17...25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	50	LRD-350	37...50		T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE	80	LRD-33 63	63...80				T	T		T	T	T	T	T	T	T	T	T
GV4 L/LE	115	LR9/F-5369	90...150					T			T	T	T			T	T	T
NSX100	MA2.5	LRD6	1...1.6	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA2.5	LRD7	1.6...2.5	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA6.3	LRD8	2.5...4	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA6.3	LRD10	4...6.3	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA12.5	LRD12	5.5...8	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA12.5	LRD14	9...13	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA12.5	LRD16	12...18	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA25	LRD21	17...25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA25	LRD22	17...25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100	MA50	LRD32	23...32	36	36	36	36	36	T	T	T	T	T	T	T	T	T	T
NSX100	MA50	LRD340	30...40		36	36	36	36	T	T	T	T	T	T	T	T	T	T
NSX100	MA50	LRD350	37...50			36	36	36	T	T	T	T	T	T	T	T	T	T
NSX100	MA100	LRD365	48...65				36	36		T	T	T	T	T	T	T	T	T
NSX100	MA100	LRD3363	63...80					36			T	T	T	T	T	T	T	T
NSX160	MA150	LR9D/F 5369	90...150										T				T	T
NSX250	MA220	LR9D/F 5371	132...220															T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

[1] Valid for all "Distribution" MicroLogic of ComPact NSX : 2.2/3, 4.2/3 5.2/3, 6.2/3, 7.2/3. Valid for Generators (and Service connection (G and AB type) MicroLogic of ComPact NSX but curves shall be checked. Not Valid for “Motor” MicroLogic of ComPact NSX ("M" type).

Motor protection selectivity

Upstream: Com**Pact** NS630b to 1600 N/H
Downstream: iC60L MA, NG125L MA, LUB12, LUB32, GV2, GV3, GV4, GV5, GV6, Com**Pact** NSX100 to 630

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Upstream CB	NS630b 800 1000 1250 1600 N/H							NS630b 800 1000 1250 1600 N/H							NS630b 800 1000 1250 1600 N/H						
Trip unit type	MicroLogic 2.0							MicroLogic 5.0 - 6.0 - 7.0 Inst 15 In							MicroLogic 5.0 - 6.0 - 7.0 Inst OFF						
Trip unit rating In (A)	630			800	1000	1250	1600	630			800	1000	1250	1600	630			800	1000	1250	1600
Setting Ir (A)	250	400	630	800	1000	1250	1600	250	400	630	800	1000	1250	1600	250	400	630	800	1000	1250	1600
Downstream CB CB type / Trip unit type	CB rating or Trip unit rating (A)	Selectivity limit (kA)																				
iC60 L MA1.6…MA40 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5...MA63 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUC●6..12		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUC●6..32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01..ME32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 P01...P32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L03..L32 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13...P65		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L25..L65 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE 02-115 +LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV5P150F/H	150		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
GV5P220F/H	220			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
GV6P320F/H	320					T	T	T					T	T	T					T	T	T
GV6P500F/H	500							T							T							T
NSX100 F/N/H/S/L MA 2.5...MA6.3 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5...MA100 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L MA150 + LR9D/F	150		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	220			T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX400 F/N/H/S/L/R Mic. 1.3M +LR9F	320					T	T	T					T	T	T					T	T	T
NSX630 F/N Mic. 1.3M +LR9F	500							T							T							T
NSX630 H/S/L/R Mic. 1.3M +LR9F	500							65							65							65
NSX100 F/N/H/S/L/R Mic. 2.2M 6.2M	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100 (80)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L Mic. 2.2M 6.2M	⩽ 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	150		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX250 F/N/H/S/L/R Mic. 2.2M 6.2M	⩽ 150		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	220			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
NSX400 F/N/H/S/L/R Mic. 2.3M 6.3M	320					T	T	T					T	T	T					T	T	T
NSX630 F/N Mic. 2.3M 6.3M	500							T							T							T
NSX630H/S/L/R Mic. 2.3M 6.3M	500							65							65							65

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: ComPact NS630b to 1000 L
Downstream: iC60L MA, NG125L MA, LUB12, LUB32, GV2, GV3, GV4, GV5, GV6, ComPact NSX100 to 630

Ue ⩽ 440 V AC

Upstream CB		NS630b 800 1000 L														
Trip unit type		MicroLogic 2.0					MicroLogic 5.0 - 6.0 - 7.0 Inst 15 In					MicroLogic 5.0 - 6.0 - 7.0 Inst OFF				
Trip unit rating In (A)		630			800	1000	630			800	1000	630			800	1000
Setting Ir (A)		250	400	630	800	1000	250	400	630	800	1000	250	400	630	800	1000
Downstream CB		Selectivity limit (kA)														
CB type / Trip unit type	CB rating or Trip unit rating (A)															
iC60 L MA1.6 … MA40 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5 .. MA63 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUC●6..12		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUC●6..32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01..ME32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 P01 .. P32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 L03..L32 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13 .. P65		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 L25..L65 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE 02-115 +LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV5P150F/H	150		T	T	T	T		T	T	T	T		T	T	T	T
GV5P220F/H	220			20	T	T			20	T	T			20	T	T
GV6P320F/H	320				15	15				15	15				15	15
GV6P500F/H	500					10					10					10
NSX100 F/N/H/S/L MA 2.5 .. MA6.3 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5 .. MA100 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F MA150 + LR9D/F	150		T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160N/H/S/L MA150 + LR9D/F	150		36	36	T	T		36	36	T	T		36	36	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	220			20	T	T	20	20	20	T	T	20	20	20	T	T
NSX400F/N/H/S/L/R MicroLogic 1.3M +LR9F	320					15										15
NSX630 F/N/H/S/L/R MicroLogic 1.3M +LR9F	500					10										10
NSX100 FN/H/S/L/R MicroLogic 2.2M 6.2M	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100 (80)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L MicroLogic 2.2M 6.2M	⩽ 100	36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
	150		36	36	T	T		36	36	T	T		36	36	T	T
NSX250 F/N/H/S/L/R MicroLogic 2.2M 6.2M	⩽ 150		20	20	T	T		20	20	T	T		20	20	T	T
	220			20	T	T			20	T	T			20	T	T
NSX400F/N/H/S/L/R MicroLogic 2.3M 6.3M	320				15	15				15	15				15	15
NSX630F/N/H/S/L/R MicroLogic 2.3M 6.3M	500					10					10					10

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: ComPact NS1600b - 3200 N
Downstream: iC60L MA, NG125L MA, LUB12, LUB32, GV2, GV3, GV4, GV5, GV6, ComPact NSX100 to 630

Ue ⩽ 440 V AC

Upstream CB	NS1600 2000 2500 3200 N											
Trip unit type	MicroLogic 2.0				MicroLogic 5.0 - 6.0 - 7.0 Inst 15In				MicroLogic 5.0 - 6.0 - 7.0 Inst OFF			
Trip unit rating In (A)	1600	2000	2500	3200	1600	2000	2500	3200	1600	2000	2500	3200
Setting Ir (A)	1600	2000	2500	3200	1600	2000	2500	3200	1600	2000	2500	3200

Downstream CB CB type Trip unit type	CB rating or Trip unit rating (A)	Selectivity limit (kA)											
iC60 L MA1.6 … MA40 + LRD		T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5 .. MA63 + LRD		T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUC●6..12		T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUC●6..32		T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01..ME32		T	T	T	T	T	T	T	T	T	T	T	T
GV2 P01 .. P32		T	T	T	T	T	T	T	T	T	T	T	T
GV2 L03..L32 + LRD		T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13 .. P65		T	T	T	T	T	T	T	T	T	T	T	T
GV3 L25..L65 + LRD		T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115		T	T	T	T	T	T	T	T	T	T	T	T
GV4 L/LE 02-115 +LRD		T	T	T	T	T	T	T	T	T	T	T	T
GV5P150F/H	150	T	T	T	T	T	T	T	T	T	T	T	T
GV5P220F/H	220	T	T	T	T	T	T	T	T	T	T	T	T
GV6P320F/H	320	T	T	T	T	T	T	T	T	T	T	T	T
GV6P500F/H	500	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L MA 2.5 .. MA6.3 + LRD		T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5 .. MA100 + LRD		T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L MA150 + LR9D/F	150	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	220	T	T	T	T	T	T	T	T	T	T	T	T
NSX400F/N/H/S/L/R MicroLogic 1.3M +LR9F	320	T	T	T	T	T	T	T	T	T	T	T	T
NSX630 F/N/H/S/L/R MicroLogic 1.3M +LR9F	500	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MicroLogic 2.2M 6.2M	25-50	T	T	T	T	T	T	T	T	T	T	T	T
	100 (80)	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L MicroLogic 2.2M 6.2M	⩽ 100	T	T	T	T	T	T	T	T	T	T	T	T
	150	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R MicroLogic 2.2M 6.2M	⩽ 150	T	T	T	T	T	T	T	T	T	T	T	T
	220	T	T	T	T	T	T	T	T	T	T	T	T
NSX400 F/N/H/S/L/R MicroLogic 2.3M 6.3M	320	T	T	T	T	T	T	T	T	T	T	T	T
NSX630 F/N/H/S/L/R MicroLogic 2.3M 6.3M	320	T	T	T	T	T	T	T	T	T	T	T	T
	500	T	T	T	T	T	T	T	T	T	T	T	T

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: Master**Pact** MTZ1 06-16 H1/H2/H3
Downstream: iC60L MA, NG125L MA, LUB12, LUB32, GV2, GV3, GV4, GV5, GV6, Com**Pact** NSX100 to 630

Ue ⩽ 440 V AC

Upstream CB	MasterPact MTZ1 06/08/10/12/16 H1/H2/H3																				
Trip unit type	MicroLogic 2.0X							MicroLogic 5.0X - 6.0X - 7.0X Inst 15 In								MicroLogic 5.0X - 6.0X - 7.0X Inst OFF						
Trip unit rating In (A)	630			800	1000	1250	1600	630			800	1000	1250	1600		630			800	1000	1250	1600
Setting Ir (A)	250	400	630	800	1000	1250	1600	250	400	630	800	1000	1250	1600		250	400	630	800	1000	1250	1600

Downstream CB CB type Trip unit type	CB rating or Trip unit rating (A)	Selectivity limit (kA)																				
iC60 L MA1.6…MA40 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5...MA63 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUC●6...12		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUC●6...32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01...ME32 GV2 P01...P32 GV2 L03...L32 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13...P65 GV3 L25...L65 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115 GV4 L/LE 02-115 +LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV5P150F/H			T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
GV5P220F/H			T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
GV6P320F/H							T	T						T	T						T	T
GV6P500F/H								T							T							T
NSX100 F/N/H/S/L MA 2.5...MA6.3 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5...MA100 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L MA150 + LR9D/F	150		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	220			T	T	T	T	T			T	T	T	T	T			T	T	T	T	T
NSX400F/N/H/S/L/R MicroLogic 1.3M +LR9F	320					T	T	T					T	T	T					T	T	T
NSX630 F/N/H/S/L/R MicroLogic 1.3M +LR9F	500																					T
NSX100 FN/H/S/L/R MicroLogic 2.2M 6.2M	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100 (80)		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX160 F/N/H/S/L MicroLogic 2.2M 6.2M	⩽ 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	150		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX250 F/N/H/S/L/R MicroLogic 2.2M 6.2M	⩽ 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	220		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX400 F/N/H/S/L/R MicroLogic 2.3M 6.3M	320						T	T						T	T						T	T
NSX630 F/N/H/S/L/R MicroLogic 2.3M 6.3M	320						T	T						T	T						T	T
	500							T							T							T

T	Total selectivity, up to the breaking capacity of the downstream circuit breaker.
4	Selectivity limit = 4 kA.
	No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: Master**Pact** MTZ1 06-10 L1
Downstream: iC60L MA, NG125L MA, LUB12, LUB32, GV2, GV3, GV4, GV5, GV6, Com**Pact** NSX100 to 630

Ue ⩽ 440 V AC

Upstream CB	MasterPact MTZ1 06/08/10 L1														
Trip unit type	MicroLogic 2.0X					MicroLogic 5.0X - 6.0X - 7.0X Inst 15 In					MicroLogic 5.0X - 6.0X - 7.0X Inst OFF				
Trip unit rating In (A)	630			800	1000	630			800	1000	630			800	1000
Setting Ir (A)	250	400	630	800	1000	250	400	630	800	1000	250	400	630	800	1000

Downstream CB		Selectivity limit (kA)														
CB type Trip unit type	CB rating or Trip unit rating (A)															
iC60 L MA1.6…MA40 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5...MA63 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUC●6...12		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUC●6...32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01...ME32 GV2 P01...P32 GV2 L03...L32 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13...P65 GV3 L25...L65 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115 GV4 L/LE 02-115 +LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV5P150F/H			T	T	T	T		T	T	T	T		T	T	T	T
GV5P220F/H				20	T	T			20	T	T			20	T	T
GV6P320F/H					15	15				15	15				15	15
GV6P500F/H						10					10					10
NSX100 F/N/H/S/L MA 2.5...MA6.3 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5...MA100 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F MA150 + LR9D/F	150		T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 N/H/S/L MA150 + LR9D/F	150		36	36	T	T		36	36	T	T		36	36	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	220			20	T	T			20	T	T			20	T	T
NSX400 F/N/H/S/L/R Mic. 1.3M + LR9F	320					15					15					15
NSX630 F/N/H/S/L/R Mic. 1.3M +LR9F	500															
NSX100 F/N/H/S/L/R Mic. 2.2M 6.2M	25/50	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100 (80)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F Mic. 2.2M 6.2M	⩽ 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	150		T	T	T	T		T	T	T	T		T	T	T	T
NSX160 N/H/S/L Mic. 2.2M 6.2M	⩽ 100	36	36	36	T	T	36	36	36	T	T	36	36	36	T	T
	150		36	36	T	T		36	36	T	T		36	36	T	T
NSX250 F/N/H/S/L/R Mic. 2.2M 6.2M	⩽ 150		20	20	T	T		20	20	T	T		20	20	T	T
	220			20	T	T			20	T	T			20	T	T
NSX400 F/N/H/S/L/R Mic. 2.3M 6.3M	320				15	15				15	15				15	15
NSX630 F/N/H/S/L/R Mic. 2.3M 6.3M	500					10					10					10

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: Master**Pact** MTZ2 08/10/12/16/20 N1/H1/H2/H2V/L1
Downstream: iC60L MA, NG125L MA, LUB12, LUB32, GV2, GV3, GV4, GV5, GV6, Com**Pact** NSX100 to 630

Ue ⩽ 440 V AC

Upstream CB		MasterPact MTZ2 08/10/12/16/20 N1/H1/H2/H2V/L1																				
Trip unit type		MicroLogic 2.0X							MicroLogic 5.0X - 6.0X - 7.0X Inst 15 In							MicroLogic 5.0X - 6.0X - 7.0X Inst OFF						
Trip unit rating In (A)		800			1000	1250	1600	2000	800			1000	1250	1600	2000	800			1000	1250	1600	2000
Setting Ir (A)		320	630	800	1000	1250	1600	2000	320	630	800	1000	1250	1600	2000	320	630	800	1000	1250	1600	2000
Downstream CB																						
CB type Trip unit type	CB rating or Trip unit rating (A)	Selectivity limit (kA)																				
iC60 L MA1.6…MA40 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5...MA63 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUC●6...12		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUC●6...32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01...ME32 GV2 P01...P32 GV2 L03...L32 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13...P65 GV3 L25...L65 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115 GV4 L/LE 02-115 +LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV5P150F/H			T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
GV5P220F/H			T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
GV6P320F/H					T	T	T	T				T	T	T	T				T	T	T	T
GV6P500F/H							T	T						T	T						T	T
NSX100 F/N/H/S/L MA 2.5 .. MA6.3 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5 .. MA100 + LRD		T	T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX160 F/N/H/S/L MA150 + LR9D/F	150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	220		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX400F/N/H/S/L/R MicroLogic 1.3M +LR9F	320				T	T	T	T				T	T	T	T				T	T	T	T
NSX630 F/N/H/S/L/R MicroLogic 1.3M +LR9F	500						T	T						T	T						T	T
NSX100 FN/H/S/L/R MicroLogic 2.2M 6.2M	25/50	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100 (80)	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L MicroLogic 2.2M 6.2M	⩽ 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	150		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX250 F/N/H/S/L/R MicroLogic 2.2M 6.2M	⩽ 150		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
	220		T	T	T	T	T	T		T	T	T	T	T	T		T	T	T	T	T	T
NSX400F/N/H/S/L/R MicroLogic 2.3 6.3M	320				T	T	T	T				T	T	T	T				T	T	T	T
NSX630F/N/H/S/L/R MicroLogic 2.3 6.3M	500						T	T						T	T						T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: Master**Pact** MTZ2 25/32/40 H1/H2/H2V, MTZ3 40/50/63 H1
Downstream: iC60L MA, NG125L MA, LUB12, LUB32, GV2, GV3, GV4, GV5, GV6, Com**Pact** NSX100 to 630

Ue ⩽ 440 V AC

Upstream CB	MTZ2 25/32/40 H1/H2/H2V			MTZ3 40/50/63 H1			MTZ2 25/32/40 H1/H2/H2V			MTZ3 40/50/63 H1			MTZ2 25/32/40 H1/H2/H2V			MTZ3 40/50/63 H1		
Trip unit type	MicroLogic 2.0X						MicroLogic 5.0X - 6.0X - 7.0X Inst 15 In						MicroLogic 5.0X - 6.0X - 7.0X Inst OFF					
Trip unit rating In (A)	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300
Setting Ir (A)	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300	2500	3200	4000	4000	5000	6300

Downstream CB		Selectivity limit (kA)																	
CB type Trip unit type	CB rating or Trip unit rating (A)																		
iC60 L MA1.6…MA40 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5...MA63 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUC●6...12		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUC●6...32		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01...ME32 GV2 P01...P32 GV2 L03...L32 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13...P65 GV3 L25...L65 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115 GV4 L/LE 02-115 +LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV5P150F/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV5P220F/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV6P320F/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV6P500F/H		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L MA 2.5 .. MA6.3 + LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5 .. MA100+LRD		T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L MA150 + LR9D/F	150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	220	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX400 F/N/H/S/L/R MicroLogic 1.3M+LR9F	320	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX630 F/N/H/S/L/R MicroLogic 1.3M+LR9F	500	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 FN/H/S/L/R MicroLogic 2.2M 6.2M	25/50/ 100	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L MicroLogic 2.2M 6.2M	150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R MicroLogic 2.2M 6.2M	⩽ 150	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	220	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX400 F/N/H/S/L/R MicroLogic 2.3 6.3M	320	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX630 F/N/H/S/L/R MicroLogic 2.3 6.3M	500	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T

T Total selectivity, up to the breaking capacity of the downstream circuit breaker.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection selectivity

Upstream: Master**Pact** MTZ2 20/25/32/40 H3, MTZ3 40/50/63 H2
Downstream: iC60L MA, NG125L MA, LUB12, LUB32, GV2, GV3, GV4, GV5, GV6, Com**Pact** NSX100 to 630

Ue ⩽ 440 V AC

Upstream CB	MTZ2 20/25/32/40				MTZ3 40/50/63			MTZ2 20/25/32/40				MTZ3 40/50/63			MTZ2 20/25/32/40				MTZ3 40/50/63		
	H3				H2			H3				H2			H3				H2		
Trip unit type	MicroLogic 2.0X							MicroLogic 5.0X - 6.0X - 7.0X Inst 15 In							MicroLogic 5.0X - 6.0X - 7.0X Inst OFF						
Trip unit rating In (A)	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300
Setting Ir (A)	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300	2000	2500	3200	4000	4000	5000	6300
Downstream CB CB type Trip unit type	**Selectivity limit (kA)**																				
iC60 L MA1.6…MA40 + LRD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NG125L MA2.5...MA63 + LRD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB12 + LUC●6...12	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
LUB32 + LUC●6...32	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV2 ME01...ME32 GV2 P01...P32 GV2 L03...L32 + LRD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV3 P13...P65 GV3 L25...L65 + LRD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV4 P/PE/PEM 02-115 GV4 L/LE 02-115 +LRD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV5P150F/H	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV5P220F/H	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV6P320F/H	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
GV6P500F/H	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L MA 2.5...MA6.3 + LRD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 F/N/H/S/L/R MA12.5...MA100 + LRD	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L MA150 + LR9D/F	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R MA220 + LR9D/F	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX400 F/N/H/S/L/R MicroLogic 1.3M + LR9F	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX630 F/N/H/S/L/R MicroLogic 1.3M + LR9F	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX100 FN/H/S/L/R MicroLogic 2.2M 6.2M	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX160 F/N/H/S/L MicroLogic 2.2M 6.2M	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX250 F/N/H/S/L/R MicroLogic 2.2M 6.2M	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX400 F/N/H/S/L/R MicroLogic 2.3 6.3M	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T
NSX630 F/N/H/S/L/R MicroLogic 2.3 6.3M	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T

T — Total selectivity, up to the breaking capacity of the downstream circuit breaker.

4 — Selectivity limit = 4 kA.

(blank) — No selectivity.

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection cascading

Upstream: NG125, ComPact NSXm, NSX100, NSX160, NSX250, NSX400, NSX630
Downstream: iC60L MA, NG125L MA, LUB12, LUB32, GV2, GV3, GV4, GV5

Ue ⩽ 380-415 V AC
Ph/N 220/240 V AC

Upstream CB			NG125			NSXm					NSX100					
			N	H	L	E	B	F	N	H	B	F	N	H	S	L
Icu (kA)			25	36	50	16	25	36	50	70	25	36	50	70	100	150
Downstream CB			**Reinforced breaking capacity (kA)**													
CB type	**Rating (A)**	**Icu (kA)**														
iC60L MA	1.6-16	20	25	36	50		25	36	36	36	25	36	40	40	40	40
	25-60	15	25	36	36	16	25	30	30	30	25	30	30	30	30	30
NG125L MA	1.6-80	50										70		70	100	150
GV2 ME	01-14	100														
	16-32	15									25	36	40	50	50	50
GV2 P	01-16	100														
	20-32	50								70				70	100	150
GV2 L	01-16	100														
	20-32	50								70				70	100	150
GV3 P	40-65	50								70				70	100	150
GV3 L	40-65	50								70				70	100	150
LUB12	0.15-12	50								70				70	100	150
LUB32	0.15-32	50								70				70	100	150
GV4L & LE B	2-115	25						36	36	50		36	36	50	50	50
GV4L & LE N	2-115	50								70				70	100	100
GV4L & LE S	2-115	100														150
GV4P, PE, PEM B	2-115	25						36	36	50		36	36	50	50	50
GV4P, PE, PEM N	2-115	50								70				70	100	100
GV4P, PE, PEM S	2-115	100														150

Upstream CB			NSX160						NSX250					
			B	F	N	H	S	L	B	F	N	H	S	L
Icu (kA)			25	36	50	70	100	150	25	36	50	70	100	150
Downstream CB			**Reinforced breaking capacity (kA)**											
CB type	**Rating (A)**	**Icu (kA)**												
iC60L MA	1.6-16	20	25	36	40	40	40	40	25	30	30	30	30	30
	25-60	15	25	30	30	30	30	30	25	25	25	25	25	25
NG125L MA	1.6-80	50				70	100	150				70	100	150
GV2 ME	01-14	100												
	16-32	15	25	36	40	50	50	50	25	36	40	50	50	50
GV2 P	01-16	100												
	20-32	50				70	100	150				70	100	150
GV2 L	01-16	100												
	20-32	50				70	100	150				70	100	150
GV3 P	40-65	50				70	100	150				70	100	150
GV3 L	40-65	50				70	100	150				70	100	150
LUB12	0.15-12	50				70	100	150				70	100	150
LUB32	0.15-32	50				70	100	150				70	100	150
GV4L & LE B	2-115	25		36	36	50	50	50		36	36	50	50	50
GV4L & LE N	2-115	50				70	100	100				70	100	100
GV4L & LE S	2-115	100						150						150
GV4P, PE, PEM B	2-115	25		36	36	50	50	50		36	36	50	50	50
GV4P, PE, PEM N	2-115	50				70	100	100				70	100	100
GV4P, PE, PEM S	2-115	100						150						150

Upstream CB			NSX400					NSX630				
			F	N	H	S	L	F	N	H	S	L
Icu (kA)			25	36	50	70	100	150	25	36	100	150
Downstream CB			**Reinforced breaking capacity (kA)**									
CB type	**Rating (A)**	**Icu (kA)**										
GV4L & LE B	2-115	25	36	36	50	50	50	36	36	50	50	50
GV4L & LE N	2-115	50			70	100	100			70	100	100
GV4L & LE S	2-115	100					150					150
GV4P, PE, PEM B	2-115	25	36	36	50	50	50	36	36	50	50	50
GV4P, PE, PEM N	2-115	50			70	100	100			70	100	100
GV4P, PE, PEM S	2-115	100					150					150
GV5P150F	150	36		50	70	100	100		50	70	100	100
GV5P150H	150	70				100	150				100	150

Note: For ComPact NSX with motor trip unit donwstream: use Electrical distribution tables.

Motor protection cascading

Upstream: Com**Pact** NSXm, NSX100, NSX160, NSX250, NSX400, NSX630
Downstream: GV4, GV5

Ue ⩽ 440 V AC

Upstream CB			NSXm					NSX100					
			E	B	F	N	H	B	F	N	H	S	L
Icu (kA)			10	20	35	50	65	20	35	50	65	90	130
Downstream CB			**Reinforced breaking capacity (kA)**										
CB type	**Rating (A)**	**Icu (kA)**											
GV4L, LE B	**2-115**	**20**			35	35	50		35	35	50	50	50
GV4L, LE N	**2-115**	**50**					65				65	90	100
GV4L, LE S	**2-115**	**70**										90	130
GV4P, PE, PEM B	**2-115**	**20**			35	35	50		35	35	50	50	50
GV4P, PE, PEM N	**2-115**	**50**					65				65	90	100
GV4P, PE, PEM S	**2-115**	**70**										90	130

Upstream CB			NSX160						NSX250					
			B	F	N	H	S	L	B	F	N	H	S	L
Icu (kA)			20	35	50	65	90	130	20	35	50	65	90	130
Downstream CB			**Reinforced breaking capacity (kA)**											
CB type	**Rating (A)**	**Icu (kA)**												
GV4L, LE B	**2-115**	**20**		35	35	50	50	50		35	35	50	50	50
GV4L, LE N	**2-115**	**50**				65	90	100				65	90	100
GV4L, LE S	**2-115**	**70**					90	130					90	130
GV4P, PE, PEM B	**2-115**	**20**		35	35	50	50	50		35	35	50	50	50
GV4P, PE, PEM N	**2-115**	**50**				65	90	100				65	90	100
GV4P, PE, PEM S	**2-115**	**70**					90	130					90	130

Upstream CB			NSX400					NSX630				
			F	N	H	S	L	F	N	H	S	L
Icu (kA)			35	50	65	90	130	35	50	65	90	130
Downstream CB			**Reinforced breaking capacity (kA)**									
CB type	**Rating (A)**	**Icu (kA)**										
GV4L, LE B	**2-115**	**20**	35	35	50	50	50	35	35	50	50	50
GV4L, LE N	**2-115**	**50**			65	90	100			65	90	100
GV4L, LE S	**2-115**	**70**				90	130				90	130
GV4P, PE, PEM B	**2-115**	**20**	35	35	50	50	50	35	35	50	50	50
GV4P, PE, PEM N	**2-115**	**50**			65	90	100			65	90	100
GV4P, PE, PEM S	**2-115**	**70**				90	130				90	130
GV5P150F	**150**	**35**		50	65	100	100		50	65	100	100
GV5P150H	**150**	**65**				100	150				100	150

Note: For ComPact NSX with motor trip unit donwstream: use Electrical distribution tables.

Motor protection cascading

Upstream: NG125, ComPact NSXm, NSX100, NSX160, NSX250, NSX400, NSX630
Downstream: iC60L MA, NG125L MA, LUB12, LUB32, GV2, GV3, GV4

Ue ⩽ 220-240 V AC
Ph/N 110-130 V AC

Upstream CB			NG125			NSXm					NSX100					
			N	H	L	E	B	F	N	H	B	F	N	H	S	L
Icu (kA)			50	70	100	25	50	85	90	100	40	85	90	100	120	150
Downstream CB			**Reinforced breaking capacity (kA)**													
CB type	Rating (A)	Icu (kA)														
iC60L MA	1.6-16	40	50	70	100							65	80	80	80	80
	25-60	30	50	70	70						40	80	80	80	80	80
NG125L MA	1.6-80	100													120	150
GV2 ME	01-14	100														
	16-32	50										85	90	100	100	100
GV2 P	01-16	100														
	20-32	100														
GV2 L	01-16	100														
	20-32	50						85	85	100		85	90	100	100	100
GV3 P	13-65	100														
GV3 L	13-65	100														
LUB12	0.15-12	50						85	85	100					120	150
LUB32	0.15-32	50						85	85	100					120	150
GV4L, LE B	2-115A	50						85	85	100		85	85	100	100	100
GV4L, LE N	2-115A	100													120	150
GV4L, LE S	2-115A	120														150
GV4P, PE, PEM B	2-115A	50						85	85	100		85	85	100	100	100
GV4P, PE, PEM N	2-115A	100													120	150
GV4P, PE, PEM S	2-115A	120														150

Upstream CB			NSX160						NSX250					
			B	F	N	H	S	L	B	F	N	H	S	L
Icu (kA)			40	85	90	100	120	150	40	85	90	100	120	150
Downstream CB			**Reinforced breaking capacity (kA)**											
CB type	Rating (A)	Icu (kA)												
iC60L MA	1.6-16	40		65	80	80	80	80		65	80	80	80	80
	25-60	30	40	80	80	80	80	80	40	50	65	65	65	65
NG125L MA	1.6-80	100					120	150					120	150
GV2 ME	01-14	100												
	16-32	50		85	90	100	100	100		85	90	100	100	100
GV2 P	01-16	100												
	20-32	100												
GV2 L	01-16	100												
	20-32	50		85	90	100	100	100		85	90	100	100	100
GV3 P	40-65	100												
GV3 L	40-65	100												
LUB12	0.15-12	50		85	85	100	100	100		85	85	100	100	100
LUB32	0.15-32	50					120	150					120	150
GV4L, LE B	2-115	50						150						150
GV4L, LE N	2-115	100		85	85	100	100	100		85	85	100	100	100
GV4L, LE S	2-115	120					120	150					120	150
GV4P, PE, PEM B	2-115	50		85	85	100	100	100		85	85	100	100	100
GV4P, PE, PEM N	2-115	100					120	150					120	150
GV4P, PE, PEM S	2-115	120						150						150

Upstream CB			NSX400					NSX630				
			F	N	H	S	L	F	N	H	S	L
Icu (kA)			40	85	100	120	150	40	85	100	120	150
Downstream CB			**Reinforced breaking capacity (kA)**									
CB type	Rating (A)	Icu (kA)										
GV4L, LE B	2-115	50		85	100	100	100		85	100	100	100
GV4L, LE N	2-115	100				120	150				120	150
GV4L, LE S	2-115	120					150					150
GV4P, PE, PEM B	2-115	50		85	100	100	100		85	100	100	100
GV4P, PE, PEM N	2-115	100				120	150				120	150

Note: For ComPact NSX with motor trip unit donwstream: use Electrical distribution tables.

Selectivity enhanced by cascading

Upstream: ComPact NSX160, NSX250, NSX400
Downstream: LUB12, LUB32, Integral 63

Ue: 380-415 V AC

Upstream CB		NSX160H		NSX160S		NSX160L		NSX250H		NSX250S		NSX250L	
	Icu (kA)	70 kA		100 kA		150 kA		70 kA		100 kA		150 kA	
	Trip unit	TM-D											
	Rating (A)	80/100	125/160	80/100	125/160	80/100	125/160	160	200/250	160	200/250	160	200/250
Downstream CB			**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**										
CB type	**Trip unit type**	**Rating (A)**											
LUB12	**LUC●X6**	**0.15-0.6**		70/70		100/100		150/150	70/70	70/70	100/100	100/100	100/100	100/100
	LUC●1X	**0.35-1.4**		70/70		100/100		150/150	70/70	70/70	100/100	100/100	100/100	100/100
	LUC●05	**1.25-5**		70/70		100/100		150/150	70/70	70/70	100/100	100/100	100/100	100/100
	LUC●12	**3-12**		70/70		100/100		150/150	70/70	70/70	100/100	100/100	100/100	100/100
LUB32	**LUC●X6**	**0.15-0.6**		5/70		5/100		5/150	5/70	70/70	5/100	100/100	5/100	100/100
	LUC●1X	**0.35-1.4**		5/70		5/100		5/150	5/70	70/70	5/100	100/100	5/100	100/100
	LUC●05	**1.25-5**		5/70		5/100		5/150	5/70	70/70	5/100	100/100	5/100	100/100
	LUC●12	**3-12**		5/70		5/100		5/150	5/70	70/70	5/100	100/100	5/100	100/100
	LUC●18	**4.5-18**		5/70		5/100		5/150	5/70	70/70	5/100	100/100	5/100	100/100
	LUC●32	**8-32**		5/70		5/100		5/150	5/70	70/70	5/100	100/100	5/100	100/100
Integral 63	**LB1-LD03M16**	**10-13**								70/70		100/100		150/150
LD1-LD030	**LB1-LD03M21**	**11-18**								70/70		100/100		150/150
LD4-LD130	**LB1-LD03M22**	**18-25**								70/70		100/100		150/150
LD4-LD030	**LB1-LD03M53**	**23-32**								70/70		100/100		150/150
	LB1-LD03M55	**28-40**								70/70		100/100		150/150
	LB1-LD03M57	**35- 50**								70/70		100/100		150/150
	LB1-LD03M61	**45-63**								70/70		100/100		150/150

Upstream CB		NSX160H	NSX160L	NSX160L	NSX250H	NSX250S	NSX250L	NSX400H	NSX400S	NSX400L
	Icu (kA)	70 kA	100 kA	150 kA	70 kA	100 kA	150 kA	70 kA	100 kA	150 kA
	Trip unit	MicroLogic								
	Rating (A)	160	160	160	250	250	250	400	400	400
Downstream CB		**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**								
CB type	**Trip unit type**	**Rating (A)**								
LUB12	**LUC●X6**	**0.15-0.6**	70/70	100/100	150/150	70/70	100/100	100/100			
	LUC●1X	**0.35-1.4**	70/70	100/100	150/150	70/70	100/100	100/100			
	LUC●05	**1.25-5**	70/70	100/100	150/150	70/70	100/100	100/100			
	LUC●12	**3-12**	70/70	100/100	150/150	70/70	100/100	100/100			
LUB32	**LUC●X6**	**0.15-0.6**	5/70	5/100	5/150	70/70	100/100	100/100			
	LUC●1X	**0.35-1.4**	5/70	5/100	5/150	70/70	100/100	100/100			
	LUC●05	**1.25-5**	5/70	5/100	5/150	70/70	100/100	100/100			
	LUC●12	**3-12**	5/70	5/100	5/150	70/70	100/100	100/100			
	LUC●18	**4.5-18**	5/70	5/100	5/150	70/70	100/100	100/100			
	LUC●32	**8-32**	5/70	5/100	5/150	70/70	100/100	100/100			
Integral 63	**LB1-LD03M16**	**10-13**	70/70	100/100	150/150	70/70	100/100	150/150	70/70	100/100	150/150
LD1-LD030	**LB1-LD03M21**	**11-18**				70/70	100/100	150/150	70/70	100/100	150/150
LD4-LD130	**LB1-LD03M22**	**18-25**				70/70	100/100	150/150	70/70	100/100	150/150
LD4-LD030	**LB1-LD03M53**	**23-32**				70/70	100/100	150/150	70/70	100/100	150/150
	LB1-LD03M55	**28-40**				70/70	100/100	150/150	70/70	100/100	150/150
	LB1-LD03M57	**35-50**				70/70	100/100	150/150	70/70	100/100	150/150
	LB1-LD03M61	**45-63**				70/70	100/100	150/150	70/70	100/100	150/150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity enhanced by cascading

Upstream: ComPact NSX160
Downstream: GV2 ME

Ue: 380-415 V AC

Upstream CB		NSX160B								NSX160F								
	Icu (kA)	25 kA								36 kA								
	Trip unit	TM-D																
	Rating (A)	16	25	40	63	80	100	125	160	16	25	32	40/50	63	80	100	125	160
Downstream CB																		
CB type	**Thermal relay**	**Rating (A)**	**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**															
GV2 ME01	Integrated	0.1-0.16	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36
GV2 ME02	Integrated	0.16-0.25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36
GV2 ME03	Integrated	0.25-0.40	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36
GV2 ME04	Integrated	0.40-0.63	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36
GV2 ME05	Integrated	0.63-1	25/25	25/25	25/25	25/25	25/25	25/25	25/25	25/25	36/36	36/36	36/36	36/36	36/36	36/36	36/36	36/36
GV2 ME06	Integrated	1-1.6		25/25	25/25	25/25	25/25	25/25	25/25	25/25		36/36	36/36	36/36	36/36	36/36	36/36	36/36
GV2 ME07	Integrated	1.6-2.5			25/25	25/25	25/25	25/25	25/25	25/25			36/36	36/36	36/36	36/36	36/36	36/36
GV2 ME08	Integrated	2.5-4							25/25	25/25							36/36	36/36
GV2 ME10	Integrated	4-6.3							25/25	25/25							36/36	36/36
GV2 ME14	Integrated	6-10							25/25	25/25							36/36	36/36
GV2 ME16	Integrated	9-14							25/25	25/25							36/36	36/36
GV2 ME20	Integrated	13-18							25/25	25/25							36/36	36/36
GV2 ME21	Integrated	17-23							25/25	25/25							36/36	36/36
GV2 ME22	Integrated	20-25							25/25	25/25							36/36	36/36
GV2 ME32	Integrated	24-32							25/25	25/25							36/36	36/36

Upstream CB		NSX160N/H/S/L									
	Icu (kA)	50/70/100/150 kA									
	Trip unit	TM-D									
	Rating (A)	16	25	32	40	50	63	80	100	125	160
Downstream CB											
CB type	**Thermal relay**	**Rating (A)**	**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**									
GV2 ME01	Integrated	0.1-0.16	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
GV2 ME02	Integrated	0.16-0.25	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
GV2 ME03	Integrated	0.25-0.40	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
GV2 ME04	Integrated	0.40-0.63	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
GV2 ME05	Integrated	0.63-1	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
GV2 ME06	Integrated	1-1.6		50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
GV2 ME07	Integrated	1.6-2.5			50/50	50/50	50/50	50/50	50/50	50/50	50/50	50/50
GV2 ME08	Integrated	2.5-4									50/50	50/50
GV2 ME10	Integrated	4-6.3									50/50	50/50
GV2 ME14	Integrated	6-10									50/50	50/50
GV2 ME16	Integrated	9-14									50/50	50/50
GV2 ME20	Integrated	13-18									50/50	50/50
GV2 ME21	Integrated	17-23									50/50	50/50
GV2 ME22	Integrated	20-25									50/50	50/50
GV2 ME32	Integrated	24-32									50/50	50/50

Upstream CB		NSX160B	NSX160F	NSX160F
	Icu (kA)	25 kA	36 kA	50/70/100/150 kA
	Trip unit	MicroLogic		
	Rating (A)	160	160	160
Downstream CB				
CB type	**Thermal relay**	**Rating (A)**	**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**		
GV2 ME01	Integrated	0.1-0.16	25/25	36/36	50/50
GV2 ME02	Integrated	0.16-0.25	25/25	36/36	50/50
GV2 ME03	Integrated	0.25-0.40	25/25	36/36	50/50
GV2 ME04	Integrated	0.40-0.63	25/25	36/36	50/50
GV2 ME05	Integrated	0.63-1	25/25	36/36	50/50
GV2 ME06	Integrated	1-1.6	25/25	36/36	50/50
GV2 ME07	Integrated	1.6-2.5	25/25	36/36	50/50
GV2 ME08	Integrated	2.5-4	25/25	36/36	50/50
GV2 ME10	Integrated	4-6.3	25/25	36/36	50/50
GV2 ME14	Integrated	6-10	25/25	36/36	50/50
GV2 ME16	Integrated	9-14	25/25	36/36	50/50
GV2 ME20	Integrated	13-18	25/25	36/36	50/50
GV2 ME21	Integrated	17-23	25/25	36/36	50/50
GV2 ME22	Integrated	20-25	25/25	36/36	50/50
GV2 ME32	Integrated	24-32	25/25	36/36	50/50

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity enhanced by cascading

Upstream: ComPact NSX160
Downstream: GV2 P

Ue: 380-415 V AC

Upstream CB		NSX160H				NSX160S			
	Icu (kA)	70 kA				100 kA			
	Trip unit	TM-D							
	Rating (A)	80	100	125	160	80	100	125	160
Downstream CB									
CB type	**Thermal relay**	**Rating (A)**	**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**							
GV2 P01	**Integrated**	**0.1-0.16**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 P02	**Integrated**	**0.16-0.25**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 P03	**Integrated**	**0.25-0.40**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 P04	**Integrated**	**0.40-0.63**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 P05	**Integrated**	**0.63-1**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 P06	**Integrated**	**1-1.6**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 P07	**Integrated**	**1.6-2.5**	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 P08	**Integrated**	**2.5-4**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 P10	**Integrated**	**4-6.3**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 P14	**Integrated**	**6-10**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 P16	**Integrated**	**9- 14**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 P20	**Integrated**	**13-18**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 P21	**Integrated**	**17-23**			70/70	70/70	100/100	100/100	100/100	100/100
GV2 P22	**Integrated**	**20-25**			70/70	70/70	100/100	100/100	100/100	100/100

Upstream CB		NSX160L				NSX160H	NSX160S	NSX160L
	Icu (kA)	150 kA				70 kA	100 kA	150 kA
	Trip unit	TM-D				MicroLogic		
	Rating (A)	80	100	125	160	160	160	160
Downstream CB								
CB type	**Thermal relay**	**Rating (A)**	**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**						
GV2 P01	**Integrated**	**0.1-0.16**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 P02	**Integrated**	**0.16-0.25**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 P03	**Integrated**	**0.25-0.40**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 P04	**Integrated**	**0.40-0.63**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 P05	**Integrated**	**0.63-1**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 P06	**Integrated**	**1-1.6**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 P07	**Integrated**	**1.6-2.5**	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 P08	**Integrated**	**2.5-4**			150/150	150/150	70/70	100/100	150/150
GV2 P10	**Integrated**	**4-6.3**			150/150	150/150	70/70	100/100	150/150
GV2 P14	**Integrated**	**6-10**			150/150	150/150	70/70	100/100	150/150
GV2 P16	**Integrated**	**9-14**			150/150	150/150	70/70	100/100	150/150
GV2 P20	**Integrated**	**13-18**			150/150	150/150	70/70	100/100	150/150
GV2 P21	**Integrated**	**17-23**			150/150	150/150	70/70	100/100	150/150
GV2 P22	**Integrated**	**20-25**			150/150	150/150	70/70	100/100	150/150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity enhanced by cascading

Upstream: ComPact NSX160
Downstream: GV2 L

Ue: 380-415 V AC

Upstream CB		NSX160H				NSX160S			
	Icu (kA)	70 kA				100 kA			
	Trip unit	TM-D							
	Rating (A)	80	100	125	160	80	100	125	160
Downstream CB									
CB type	**Thermal relay**	**Rating (A)**	**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**							
GV2 L03	LR2 D13 03	0.25-0.40	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 L04	LR2 D13 04	0.40-0.63	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 L05	LR2 D13 05	0.63-1	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 L06	LR2 D13 06	1-1.6	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 L07	LR2 D13 07	1.6-2.5	70/70	70/70	70/70	70/70	100/100	100/100	100/100	100/100
GV2 L08	LR2 D13 08	2.5-4			70/70	70/70	100/100	100/100	100/100	100/100
GV2 L10	LR2 D13 10	4-6.3			70/70	70/70	100/100	100/100	100/100	100/100
GV2 L14	LR2 D13 14	7-10			70/70	70/70	100/100	100/100	100/100	100/100
GV2 L16	LR2 D13 16	9-13			70/70	70/70	100/100	100/100	100/100	100/100
GV2 L20	LR2 D13 21	12-18			70/70	70/70	100/100	100/100	100/100	100/100
GV2 L22	LR2 D13 22	17-25			70/70	70/70	100/100	100/100	100/100	100/100

Upstream CB		NSX160L				NSX160H	NSX160S	NSX160L
	Icu (kA)	150 kA				70 kA	100 kA	150 kA
	Trip unit	TM-D				MicroLogic		
	Rating (A)	80	100	125	160	160	160	160
Downstream CB								
CB type	**Thermal relay**	**Rating (A)**	**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**						
GV2 L03	LR2 D13 03	0.25-0.40	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 L04	LR2 D13 04	0.40-0.63	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 L05	LR2 D13 05	0.63-1	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 L06	LR2 D13 06	1-1.6	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 L07	LR2 D13 07	1.6-2.5	150/150	150/150	150/150	150/150	70/70	100/100	150/150
GV2 L08	LR2 D13 08	2.5-4			150/150	150/150	70/70	100/100	150/150
GV2 L10	LR2 D13 10	4-6.3			150/150	150/150	70/70	100/100	150/150
GV2 L14	LR2 D13 14	7-10			150/150	150/150	70/70	100/100	150/150
GV2 L16	LR2 D13 16	9-13			150/150	150/150	70/70	100/100	150/150
GV2 L20	LR2 D13 21	12-18			150/150	150/150	70/70	100/100	150/150
GV2 L22	LR2 D13 22	17-25			150/150	150/150	70/70	100/100	150/150

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Selectivity enhanced by cascading

Upstream: Com**Pact** NSX160, NSX250, NSX400
Downstream: LUB12, LUB32

Ue: 440 V AC

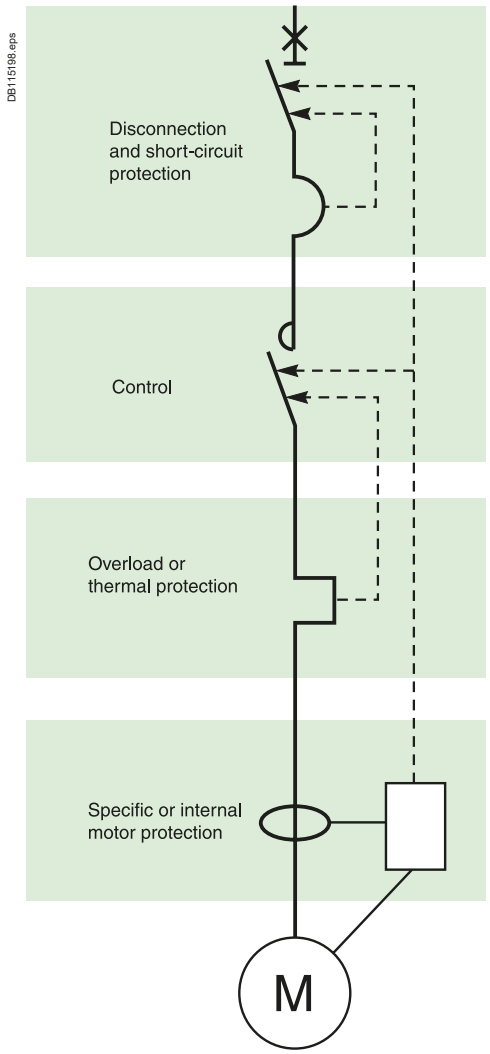
Upstream CB		NSX160H		NSX160S		NSX160L		NSX250H		NSX250S		NSX250L	
	Icu (kA)	65 kA		90 kA		130 kA		65 kA		90 kA		130 kA	
	Trip unit	TM-D											
	Rating (A)	80/100	125/160	80/100	125/160	80/100	125/160	160	200/250	160	200/250	160	200/250
Downstream CB													
CB type	**Trip unit type**	**Rating (A)**	**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**										
LUB12	**LUC●X6**	**0.15-0.6**		65/65		90/90		130/130	65/65	65/65	90/90	90/90	100/100	100/100
	LUC●1X	**0.35-1.4**		65/65		90/90		130/130	65/65	65/65	90/90	90/90	100/100	100/100
	LUC●05	**1.25-5**		65/65		90/90		130/130	65/65	65/65	90/90	90/90	100/100	100/100
	LUC●12	**3-12**		65/65		90/90		130/130	65/65	65/65	90/90	90/90	100/100	100/100
LUB32	**LUC●X6**	**0.15-0.6**		5/65		5/90		5/130	5/65	65/65	5/90	90/90	5/100	100/100
	LUC●1X	**0.35-1.4**		5/65		5/90		5/130	5/65	65/65	5/90	90/90	5/100	100/100
	LUC●05	**1.25-5**		5/65		5/90		5/130	5/65	65/65	5/90	90/90	5/100	100/100
	LUC●12	**3-12**		5/65		5/90		5/130	5/65	65/65	5/90	90/90	5/100	100/100
	LUC●18	**4.5-18**		5/65		5/90		5/130	5/65	65/65	5/90	90/90	5/100	100/100
	LUC●32	**8-32**		5/65		5/90		5/130	5/65	65/65	5/90	90/90	5/100	100/100

Upstream CB		NSX160H	NSX160S	NSX160L	NSX250H	NSX250S	NSX250L	NSX400H	NSX400L
	Icu (kA)	65 kA	90 kA	130 kA	65 kA	90 kA	130 kA	65 kA	90 kA
	Trip unit	MicroLogic							
	Rating (A)	160	160	160	250	250	250	400	400
Downstream CB									
CB type	**Trip unit type**	**Rating (A)**	**Selectivity limit (kA) / Breaking capacity enhanced by cascading (kA)**						
LUB12	**LUC●X6**	**0.15-0.6**	65/65	90/90	130/130	65/65	90/90	100/100		
	LUC●1X	**0.35-1.4**	65/65	90/90	130/130	65/65	90/90	100/100		
	LUC●05	**1.25-5**	65/65	90/90	130/130	65/65	90/90	100/100		
	LUC●12	**3-12**	65/65	90/90	130/130	65/65	90/90	100/100		
LUB32	**LUC●X6**	**0.15-0.6**	50/65	50/90	50/130	65/65	90/90	100/100		
	LUC●1X	**0.35-1.4**	50/65	50/90	50/130	65/65	90/90	100/100		
	LUC●05	**1.25-5**	50/65	50/90	50/130	65/65	90/90	100/100		
	LUC●12	**3-12**	50/65	50/90	50/130	65/65	90/90	100/100		
	LUC●18	**4.5-18**	50/65	50/90	50/130	65/65	90/90	100/100		
	LUC●32	**8-32**	50/65	50/90	50/130	65/65	90/90	100/100		

Note: respect the basic rules of selectivity, in terms of overload, short-circuit, ground fault and earth leakage when applicable see page A-2, or check curves with Schneider Electric online “Electrical calculation tools”.

Motor protection coordination

Protection of motor circuit with circuit-breaker



Introduction

A circuit supplying a motor may include one, two, three or four switchgear or controlgear devices fulfilling one or more functions.

When a number of devices are used, they must be coordinated for providing optimum operation of the motor.

Protection of a motor circuit involves a number of parameters that depend on:
- the application (type of machine driven, starting frequency, etc.)
- the level of service continuity imposed by the load or the application
- the applicable standards to ensure protection of life and property.

The necessary electrical functions are of very different natures:
- protection (motor-dedicated for overloads)
- control (generally with high endurance levels)
- isolation.

Protection functions

Disconnection functions:
- Isolate a motor circuit prior to maintenance operations.

Short-circuit protection:
Protect the starter and the cables against major overcurrents (> 10 In).

Control:
Start and stop the motor, and, if applicable:
- gradual acceleration
- speed control.

Overload protection:
Protect the starter and the cables against minor overcurrents (< 10 In).

Additional specific protection:
- limitative fault protection (while the motor is running)
- preventive fault protection (monitoring of motor insulation with motor off).

Overloads (I < 10 In).
An overload may be caused by:
- an electrical problem, for instance on the mains (loss of a phase, voltage outside tolerances, etc.)
- a mechanical problem, for instance excessive torque due to abnormally high demands by the process or motor damage (bearing vibrations, etc.)

A further consequence of these two origins is excessively long starting.

Impedant short-circuit (10 < I < 50 In)
Deterioration of motor-winding insulation is the primary cause.

Short-circuit (I > 50 In)
This type of fault is relatively rare. A possible cause may be a connection error during maintenance.

Overload protection
Thermal relays provide protection against this type of fault. They may be:
- integrated in the short-circuit protective device
- separate.

Short-circuit protection
This type of protection is provided by a circuit breaker.

Protection against insulation faults
This type of protection may be provided by:
- a residual current device (RCD)
- an insulation monitoring device (IMD).

Motor protection coordination

Protection of motor circuit with circuit-breaker

Applicable standards

A circuit supplying a motor must comply with the general rules set out in IEC standard 60947-4-1 and in particular with those concerning contactors, motor starters and their protection as stipulated in IEC 60947-4-1, notably:

- coordination of the components of the motor circuit
- trip class for thermal relays
- contactor utilisation categories
- coordination of insulation.

Coordination of the components of the motor circuit

Two types of coordination

The standard defines tests at different current levels. The purpose of these tests is to place the switchgear and controlgear in extreme conditions. Depending on the state of the components following the tests, the standard defines two types of coordination:

- **type 1:**

Deterioration of the contactor and the relay is acceptable under two conditions:

- no danger to operating personnel
- no danger to any components other than the contactor and the relay

- **type 2:**

Only minor welding of the contactor or starter contacts is permissible and the contacts must be easily separated.

- following type-2 coordination tests, the switchgear and controlgear functions must be fully operational.

Which type of coordination is needed?

Selection of a type of coordination depends on the operating conditions encountered.

The goal is to achieve the best balance between the user's needs and the cost of the installation.

- **type 1:**
  - qualified maintenance service
  - low cost of switchgear and controlgear
  - continuity of service is not imperative or may be obtained by simply replacing the faulty motor drawer
- **type 2:**
  - continuity of service is imperative
  - limited maintenance service
  - specifications stipulating type 2.

Motor protection coordination

Protection of motor circuit with circuit-breaker

The different test currents

"Ic", "r" and "Iq" test currents

To qualify for type-2 coordination, the standard requires three fault-current tests to check that the switchgear and controlgear operates correctly under overload and short-circuit conditions.

"Ic" current (overload I < 10 In)

The thermal relay provides protection against this type of fault, up to the Ic value (a function of Im or Isd) defined by the manufacturer.
IEC standard 60947-4-1 stipulates two tests that must be carried out to guarantee coordination between the thermal relay and the short-circuit protective device:

- at 0.75 Ic, only the thermal relay reacts
- at 1.25 Ic, the short-circuit protective device reacts.

Following the tests at 0.75 and 1.25 Ic, the trip characteristics of the thermal relay must be unchanged. Type-2 coordination thus enhances continuity of service. The contactor may be closed automatically following clearing of the faul.

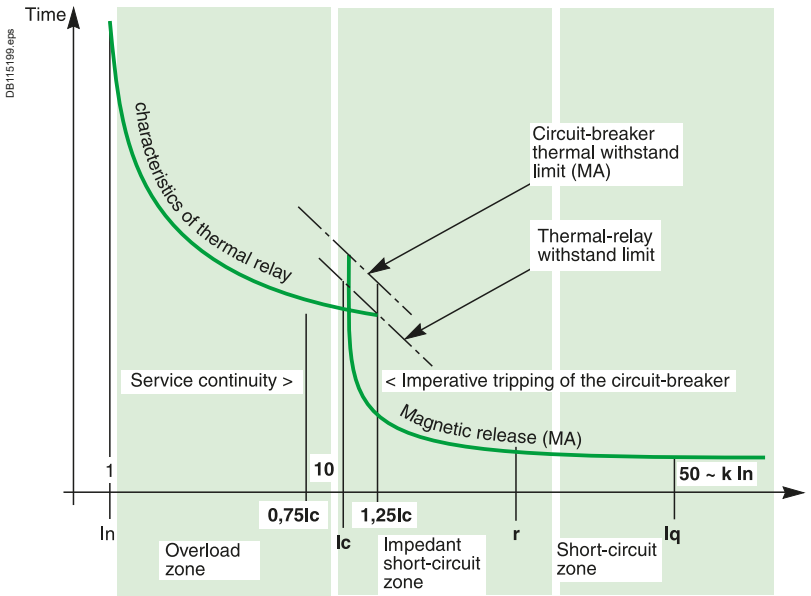
"r" current

(Impedant short-circuit 10 < I < 50 In)
The primary cause of this type of fault is the deterioration of insulation. IEC standard 60947-4-1 defines an intermediate short-circuit current “r”. This test current is used to check that the protective device provides protection against impedant short-circuits.
There must be no modification in the original characteristics of the contactor and the thermal relay following the test.
The circuit breaker must trip in ⩽ 10 ms for a fault current ⩾ 15 In.

Operational current Ie (AC3) of the motor (in A)	"r" current (kA)
Ie ⩽ 16	1
16 < Ie ⩽ 63	3
63 < Ie ⩽ 125	5
125 < Ie ⩽ 315	10
315 < Ie < 630	18

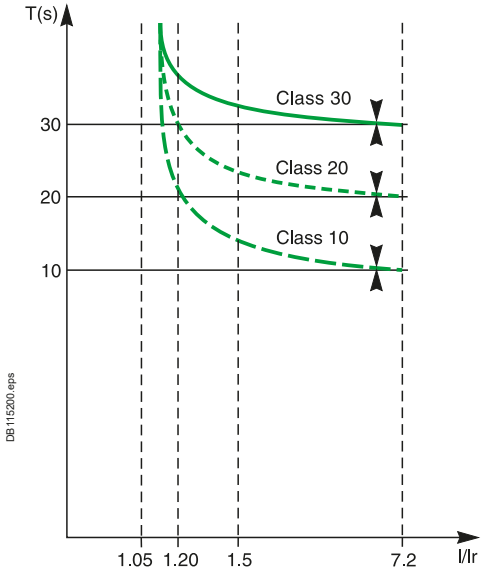
“Iq” current

(short-circuit I > 50 In)
This type of fault is relatively rare. A possible cause may be a connection error during maintenance.
Short-circuit protection is provided by devices that open quickly.
IEC standard 60947-4-1 defines the “Iq” current as generally ⩾ 50 kA.
The “Iq” current is used to check the coordination of the switchgear and controlgear installed on a motor supply circuit.
Following this test under extreme conditions, all the coordinated switchgear and controlgear must remain operational.



Motor protection coordination

Protection of motor circuit with circuit-breaker



Trip class of a thermal relay.

Trip class of a thermal relay

The four trip class of a thermal relay are 10 A, 10, 20 and 30 (maximum tripping times at 7.2 Ir).
Classes 10 and 10 A are the most commonly used. Classes 20 and 30 are reserved for motors with difficult starting conditions.
The diagram and the table opposite can be used to select a thermal relay suited to the motor starting time.

Class	1.05 Ir	1.2 Ir	1.5 Ir	7.2 Ir
10 A	t > 2 h	t < 2 h	t < 2 min.	2 ⩽ t ⩽ 10 s
10	t > 2 h	t < 2 h	t < 4 min.	4 ⩽ t ⩽ 10 s
20	t > 2 h	t < 2 h	t < 8 min.	6 ⩽ t ⩽ 20 s
30	t > 2 h	t < 2 h	t < 12 min.	9 ⩽ t ⩽ 30 s

Motor protection coordination

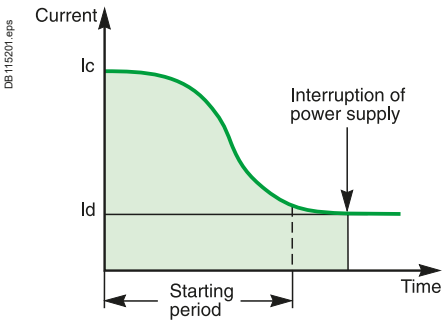
Protection of motor circuit with circuit-breaker

The four utilisation categories of contactors (AC1 to AC4)

The four utilisation categories of contactors (AC1 to AC4)The utilisation category determines the operating frequency and endurance of a contactor. The category depends on the type of load. If the load is a motor; the category also depends on the service classification.

Main characteristics of the controlled electrical circuits and applications

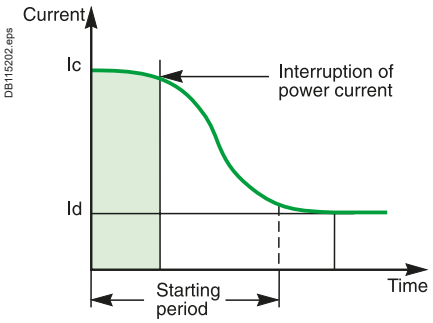
Category	Type of load	Contactor usage	Typical applications
AC1	No-inductive (cos φ 0.8)	Energisation	Heating, distribution
AC2	Slip-ring motors (cos φ 0.65)	Starting Switching off during running Regenerative braking Inching	Wire drawing machines
AC3	Squirrel-cage motors (cos φ 0.45 for Ie ≤ 100A) (cos φ 0.35 for Ie > 100A)	Starting Switching off during running	Compressors, lifts, mixing Pumps, escalators, fans, Conveyers, air-conditioning
AC4	Squirrel-cage motors (cos φ 0.45 for Ie ≤ 100A) (cos φ 0.35 for Ie > 100A)	Starting Switching off during running Regenerative braking Plugging Inching	Printing machines, wire



AC3 utilisation category. The contactor interrupts the rated current of the motor.

AC3 utilisation category

This category covers asynchronous squirrel-cage motors that are switched off during running. This is the most common situation (85 % of all cases).
The control device establishes the starting current and interrupts the rated current at a voltage equal to approximately one-sixth of the rated value.
Current interruption is carried out with no difficulty.



AC4 utilisation category. The contactor must be capable of interrupting the starting current id.

AC4 utilisation category

This category covers asynchronous squirrel-cage or slip-ring motors capable of operating under regenerative-braking or inching (jogging) conditions.
The control device establishes the starting current and is capable of interrupting the starting current at a voltage that may be equal to that of the mains.
Such difficult conditions require oversizing of the control and protective devices with respect to category AC3.

Motor protection coordination

Using the circuit breaker/contactor coordination tables

Subtransient phenomena related to direct on-line starting of asynchronous motors

Subtransient phenomena occurring when starting squirrel-cage motors:
A squirrel-cage motor draws a high inrush current during starting. This current is related to the combined influence of two parameters:

- the high inductance of the copper stator winding
- the magnetisation of the iron core of the stator.

In motor: current drawn by the motor at full rated load (in A rms)

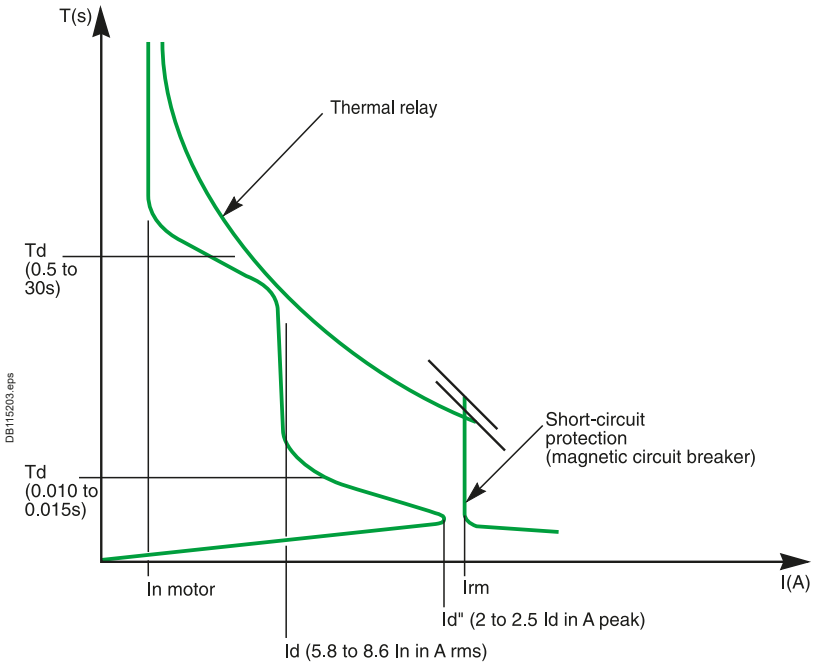
Id: current drawn by the motor during starting (in A ms)

Id'': subtransient current generated by the motor when it is energised. This very short subtransient phenomenon is expressed as k x Id x r 2 (in A peak).

td: motor starting time, from 0.5 to 30 seconds depending on the application.

td'': duration of the subtransient current, from 0.010 to 0.015 seconds when the motor is energised.

Irm: magnetic setting of the circuit breakers.



Typical upper and lower limits for these subtransient currents:
These values, not covered by standards, also depend on the type of motor technology used:

- ordinary motors Id'' = 2 Id to 2.1 Id (in A peak)
- high-efficiency motors Id'' = 2.2 Id to 2.5 Id (in A peak).
- variation of Id'' as a function of Id:

Type of motor	d (in A rms)	Id'' (in A peak)
Ordinary motor	5.8 to 8.6 In motor	Id'' = 2 Id = 11.5 In (A peak) to Id'' = 2.1 Id = 18 In (A peak)
High-efficiency motor	5.8 to 8.6 In motor	Id'' = 2.2 Id = 12.5 In (A peak) to Id'' = 2.5 Id = 21.5 In (A peak)

Example: Upon energisation, a high-efficiency motor with an Id of 7.5 In produces a subtransient current with a value between (depending on its characteritics):

- minimum = 16.5 In (in A peak)
- maximum = 18.8 In (in A peak).

Motor protection coordination

Using the circuit breaker/contactor coordination tables

Subtransient currents and protection settings:
- as illustrated in the above table, subtransient currents can be very high.
- If they approach their upper limits, they can trip short-cicuit protection devices (nuisance tripping)
- circuit breakers are rated to provide optimum short-circuit protection for motor starters (type 2 coordination with thermal relay and contactor)
- combinations made up of circuit breakers and contactors and thermal relays are designed to allow starting of motors generating high subtransient currents (up to 19 In motor peak)
- the tripping of short-circuit protective devices when starting with a combination listed in the coordination tables means:
  - the limits of certain devices may be reached
  - the use of the starter under type 2 coordination conditions on the given motor may lead to premature wear of one of the components of the combination.

In event of such a problem, the ratings of the starter and the associated protective devices must be redesigned.

European regulation EC640 has been introduced in January 2015 to enforce usage of premium efficiency motor classified as IE3.

One consequence of the improvement of induction motor's efficiency may be an increase of starting current value.

TeSys and ComPact ranges can handle IE3 motor higher inrush and starting current. However, due to the spread of starting current values of the motors on the market, it's recommended to check the value of subtransient starting current in Direct-On-Line application when Istart > 7.5 In or Ipeak inrush > 19 x In.

Using the coordination tables for circuit breaker and contactors:

- **ordinary motor:**

The starter components can be selected directly from the coordination tables, whatever the values of the starting current (Id from 5.8 to 8.6 In) and the subtransient current

- **high-efficiency motors with Id ≤ 7.5 In:**

The starter components can be selected directly from the coordination tables, whatever the values of the starting current and the subtransient current

- **high-efficiency motors with Id > 7.5 In:**

When circuit breakers are used for motor currents in the neighbourhood of their rated current, they are set to provide minimum short-circuit protection at **19 In motor (A peak)**.
There are two possibilities:

- the subtransient starting current is known (indicated by the motor manufacturer) and is less than **19 In motor (A peak)**.

In this case, the starter components can be selected directly from the coordination tables, whatever the value of the starting current (for Id > 7.5 In).
Example: for a 110 kW 380-415 V 3-phase motor, the selected components are: NSX250-MA220/LC1-F225/LR9-F5371.

- the subtransient starting current is unknown or greater than 19 In motor (A peak).

In this case, the value used for the motor power in the coordination tables should be increased by 20 % to satisfy optimum starting and coordination conditions.
Example: for a 110 kW 380-415 V 3-phase motor, the selected components are those for a motor power of 110 + 20 % = 132 kW:
NSX400 MicroLogic 4.3M/LC1-F265/LR9-F5371

Reversing starters and coordination

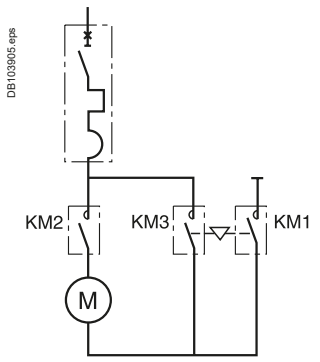
The starter components can be selected using the tables for direct-on-line starting. Replace contactors LC1 by LC2.

Star-delta starting and coordination

- the components should be sized according to the current flowing in the motor windings
- the mounting locations and connections of the various components of star-delta starters should be selected according to the type of coordination required and the protective devices implemented.

Motor protection coordination

Using the circuit breaker/contactor coordination tables



Solution with thermal-magnetic motor circuit breaker.

Star-delta starting and type 1 coordination

Contactors KM2 and KM3 are sized for the line current divided by e KM1 can be sized for the line current divided by 3, however, for the sake of homogeneity, it is often identical to contactors KM2 and KM3.

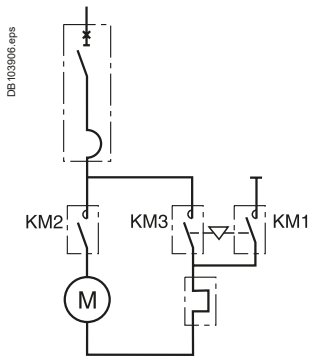
The starter components are selected from the special star-delta type 1 coordination tables.

Example: consider the following case:

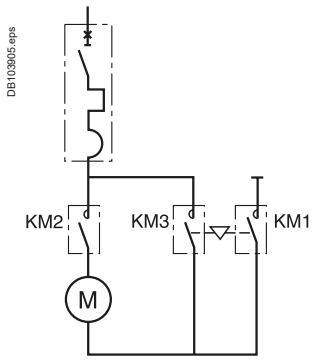
- 45 kW motor supplied at 380 V
- star-delta starting
- separate thermal relay
- short-circuit current of 20 kA at the starter
- type 1 coordination.

The starter components are selected using the table on page 557E4505.indd/8:

- circuit breaker: NSX100N-MA 100
- contactor: LC3-D50
- thermal relay: LR2-D3357.



Solution with magnetic motor circuit breaker.



Solution with thermal-magnetic motor circuit breaker.

Star-delta starting and type 2 coordination

Contactors KM1, KM2 and KM3 are sized for the line current.

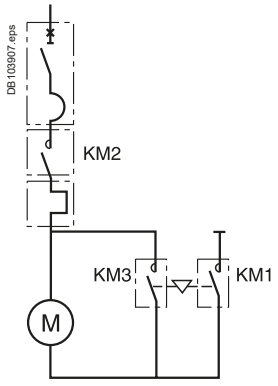
The starter components are selected from the direct-on-line type 2 coordination tables.

Example: consider the following case:

- 55 kW motor supplied at 415 V
- star-delta starting
- thermal protection built into the circuit breaker providing short-circuit protection
- short-circuit current of 45 kA at the starter
- type 2 coordination.

The starter components are selected using the table on page 189:

- circuit breaker: NSX160H with MicroLogic 6.2
- starter: LC1-F115 to be replaced by LC3-F115.



Solution with magnetic motor circuit breaker.

Motor protection coordination

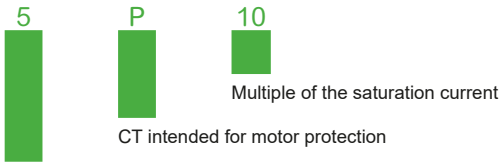
Using the circuit breaker/contactor coordination tables

Starting class and thermal relays

The following tables correspond to “normal” motor starting times. The associated thermal relays are either class 10 or 10 A (tripping time < 10 s).

- ■ for motors with long starting times, the class 10 or 10 A thermal relays must be replaced with class 20 thermal relays as indicated in the correspondence table opposite (for type 1 and type 2 coordination)
- ■ long starting times requiring a class 30 relay:
  - □ apply a derating coefficient (K = 0.8) to the circuit breaker and the contactor
- ■ coordination tables with the multifunction protective relay LT6-P
  - □ three types of multifunction relays (see the corresponding catalog for detailed characteristics) are available. They may be connected:
    - directly to the motor power supply line
    - to the secondary winding of the current transformer.

The characteristics of the current transformers are the following (as defined by IEC 44-1/44-3):



The current transformer ratings must be 5 VA per phase.

Relay		Rating Direct	Connecting Using current trans.
LTM R08	0.4 to 8 A	■	■
LTM R27	1.35 to 27 A	■	
LTM R100	5 to 100 A	■	

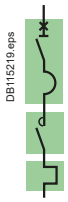
Correspondence table class 10 A and class 20 relay

Contactor series D	Thermal relay Class10/10 A	Class 20	Setting range
LC1-D09-D38	LRD 05	LRD 05L	0.63…1
	LRD 06	LRD 06L	1…1.6
	LRD 07	LRD 07L	1.6…2.5
	LRD 08	LRD 08L	2.5…4
	LRD 10	LRD 10L	4…6
	LRD 12	LRD 12L	5.5…8
	LRD 14	LRD 14L	7…10
LC1-D12-D38	LRD 16	LRD 16L	9…13
LC1-D18-D38	LRD 21	LRD 21L	12…18
LC1-D25-D38	LRD 22	LRD 22L	17…25
	LRD 32	LRD 32L	23…32
LC1-D32-D38	LRD 35		30…38
D40A - D65A	LRD 313	LRD 313L	9 ... 13
	LRD 318	LRD 318L	12 ... 18
	LRD 325	LRD 325L	17 ... 25
	LRD 332	LRD 332L	23 ... 32
	LRD 340	LRD 340L	30 ... 40
	LRD 350	LRD 350L	37 ... 50
	LRD 365	LRD 365L	38 ... 65
D80 - D95	LRD 3322	LR2 D3522	17 ... 25
	LRD 3353	LR2 D3553	23 ... 32
	LRD 3355	LR2 D3555	30 ... 40
	LRD 3357	LR2 D3557	37 ... 50
	LRD 3359	LR2 D3559	48 ... 65
	LRD 3361	LR2 D3561	55 ... 70
	LRD 3363	LR2 D3563	63 ... 80
	LRD 3365		80 ... 104
D115-D150	LR9 D5367	LR9D 5567	60 ... 100
	LR9 D5369	LR9D 5569	90 ... 150
F115-F185	LR9 F53 57	LR9 F55 57	30…50
	LR9 F53 63	LR9 F55 63	48…80
	LR9 F53 67	LR9 F55 67	60…100
	LR9 F53 69	LR9 F55 69	90…150
F185-F400	LR9 F53 71	LR9 F55 71	132…220
F225-F500	LR9 F73 75	LR9 F75 75	200…330
	LR9 F73 79	LR9 F75 79	300…500
F400-F800	LR9 F73 81	LR9 F75 81	380…630

[1] Independant mounting with LAD 7B105.

Type 2 coordination (IEC 60947-4-1)

Ue: 220-240 V AC



Magnetic circuit breaker (MA)

Contactor

Thermal relay

Circuit breakers, contactors and thermal relays

Performance "Iq" (kA): U = 220-240V						
Circuit breaker	**B**	**F**	**N**	**H**	**S**	**L**
GV4L & LE 02 - 12	-	-	100	-	120 [4]	-
GV4L & LE 25 - 115	50	-	100	-	120 [4]	-
NSX100/160/250-MA	-	85	90	100	120	150
NSX400/630-MicroLogic 1.3M	-	85	90	100	120	150
NS800L/NS1000L µicrologic 5.0	-	-	-	-	-	150

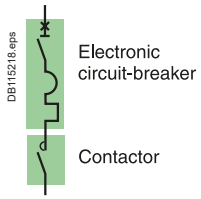
Starting [1]**:** normal LRD class 10 A, LR9 class 10.

Motors	Guide values of operational current in amps at :				Circuit breakers			Contactors [2]	Thermal o/l relays	
P (kW)	**220V (A)**	**230V (A)**	**240V (A)**	**Ie max (A)**	**Type**	**rat(A)**	**Irm(A)**	**Type**	**Type**	**Irth [1]**
0.09	0.54	0.52	0.50	1	GV4L or GV4LE	2	14	LC1-D09	LRD-05	0.63/1
0.12	0.73	0.7	0.67	1	GV4L or GV4LE	2	14	LC1-D09	LRD-05	0.63/1
0.18	1.05	1	0.96	1.6	GV4L or GV4LE	2	22	LC1-D09	LRD-06	1/1.6
0.25	1.57	1.5	1.44	1.6	GV4L or GV4LE	2	22	LC1-D09	LRD-06	1/1.6
0.37	2.0	1.9	1.82	2.5	GV4L or GV4LE	3.5	35	LC1-D09	LRD-07	1.6/2.5
0.55	2.7	2.6	2.5	3	GV4L or GV4LE	3.5	42	LC1-D32	LRD-08	2.5/4
0.75	3.5	3.3	3.2	4	GV4L or GV4LE	7	56	LC1-D32	LRD-08	2.5/4
1.1	4.9	4.7	4.5	6	GV4L or GV4LE	7	84	LC1-D32	LRD-10	4/6
1.5	6.6	6.3	6.0	7	GV4L or GV4LE	7	91	LC1-D40A	LRD-12 [3]	5.5/8
2.2	8.9	8.5	8.1	10	GV4L or GV4LE	12.5	138	LC1-D40A	LRD-14 [3]	7 /10
3	11.8	11.3	10.8	12.5	GV4L or GV4LE	12.5	163	LC1-D40A	LRD313	9/13
4	15.7	15	14.4	18	GV4L or GV4LE	25	250	LC1-D40A	LRD318	12/18
					NSX100-MA	25	250	LC1-D80	LRD 3321	12/18
5.5	20.9	20	19.2	25	GV4L or GV4LE	25	325	LC1-D40A	LRD325	17/25
					NSX100-MA	25	325	LC1-D80	LRD 3322	17/25
7.5	28.2	27	25.9	32	GV4L or GV4LE	50	450	LC1-D40A	LRD332	23/32
					NSX100-MA	50	450	LC1-D80	LRD-33 53	23/32
10	36.1	35	33.1	40	GV4L or GV4LE	50	550	LC1-D50A	LRD340	30/40
					NSX100-MA	50	550	LC1-D80	LRD-33 55	30/40
11	40	38	36	50	GV4L or GV4LE	50	650	LC1-D50A	LRD350	37/50
				40	NSX100-MA	50	550	LC1-D80	LRD-33 55	30/40
15	53	51	49	65	GV4L or GV4LE	80	880	LC1-D65A	LRD365	48/65
				63	NSX100-MA	100	700	LC1-D80	LRD-33 59	48/65
18.5	64	61	58	65	GV4L or GV4LE	80	880	LC1-D65A	LRD365	48/65
				63	NSX100-MA	100	900	LC1-D80	LRD-33 59	48/65
22	75	72	69	80	GV4L or GV4LE	80	1040	LC1-D80	LRD-33 63	63/80
					NSX100-MA	100	1100	LC1-D80	LRD-33 63	63/80
30	100	96	92	100	NSX100-MA	100	1300	LC1-D115	LR9-D53 67	60/100
								LC1-F115	LR9-F53 67	60/100
37	120	115	110	150	NSX160-MA	150	1950	LC1-D150	LR9-D53 69	90/150
								LC1-F150	LR9-F53 69	90/150
45	146	140	134	150	NSX160-MA	150	1950	LC1-D150	LR9-D53 69	90/150
								LC1-F150	LR9-F53 69	90/150
55	177	169	162	185	NSX250-MA	220	2420	LC1-F185	LR9-F53 71	132/220
				220	NSX400 - MicroLogic 1.3M	320	2880	LC1-F265	LR9-F53 71	132/220
75	240	230	220	265	NSX400 - MicroLogic 1.3M	320	3500	LC1-F265	LR9-F73 75	200/330
90	291	278	266	320	NSX400 - MicroLogic 1.3M	320	4160	LC1-F330	LR9-F73 75	200/330
110	355	340	326	400	NSX630 - MicroLogic 1.3M	500	5700	LC1-F400	LR9-F73 79	300/500
132	418	400	383	500	NSX630 - MicroLogic 1.3M	500	6500	LC1-F500	LR9-F73 79	300/500
150	477	457	438	500	NSX630 - MicroLogic 1.3M	500	6500	LC1-F500	LR9-F73 79	300/500
160	509	487	467	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LR9-F73 81	380/630
200	637	609	584	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LR9-F73 81	380/630
220	700	658	631	700	NS800L - MicroLogic 5.0 - LR off	800	9600	LC1-F780 or LC1F1000	TC800/5 + LRD-10	630/1000
250	782	748	717	800	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1-F780 or LC1F1000	TC800/5 + LRD-10	630/1000

[1] For long starting (class 20), see the correspondence table for thermal relay.
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Separate overload relay.
[4] GV4LE only, for GV4 "S" performance with rotary handle, order GV4LE "S" & rotary handle separately.

Type 2 coordination (IEC 60947-4-1)

Ue: 220-240 V AC



Circuit breakers, and contactors

Performance "Iq" (kA): U = 220-240V						
Circuit breakers	**B**	**F**	**N**	**H**	**S**	**L**
GV4 P, PE & PEM 02 - 12	-	-	100	-	120 [4]	-
GV4 P, PE & PEM 25 - 115	50	-	100	-	120 [4]	-
NSX100/160/250 MicroLogic 2.2M / 6.2M	-	85	90	100	120	150
NSX400/630 MicroLogic 2.3M / 6.3M	-	85	90	100	120	150
NS800L/NS1000L MicroLogic 5.0	-	-	-	-	-	150

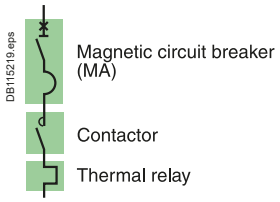
Starting [1]	**Standard IEC 60947-4-1**			
Trip unit	GV4P, PE or PEM	MicroLogic 2.2M / 2.3M	MicroLogic 6.2M / 6.3M	Mircologic 5.0
normal (classe)	10	5. 10	5. 10	10
long (classe)	20	20	20. 30 [1]	20

Motors	**Guide values of operational current in amps at :**				**Circuit breakers**			**Contactors** [2]	**Thermal o/l relays**
P (kW)	**220V (A)**	**230V (A)**	**240V (A)**	**Ie max (A)**	**Type**	**trip unit**	**Irth(A)**	**Irm(A)** [3]	**Type**
0.09	0.54	0.52	0.50	1	GV4P, PE or PEM	2	0.8/2	14	LC1-D25
0.12	0.73	0.7	0.67	1	GV4P, PE or PEM	2	0.8/2	14	LC1-D25
0.18	1.05	1	0.96	1.6	GV4P, PE or PEM	2	0.8/2	22	LC1-D25
0.25	1.57	1.5	1.44	1.6	GV4P, PE or PEM	2	0.8/2	22	LC1-D25
0.37	2.0	1.9	1.82	2.5	GV4P, PE or PEM	3.5	1.4/3.5	42	LC1-D32
0.55	2.7	2.6	2.5	3	GV4P, PE or PEM	3.5	1.4/3.5	42	LC1-D32
0.75	3.5	3.3	3.2	4	GV4P, PE or PEM	7	2.9/7	56	LC1-D50A
1.1	4.9	4.7	4.5	6	GV4P, PE or PEM	7	2.9/7	84	LC1-D50A
1.5	6.6	6.3	6.0	7	GV4P, PE or PEM	7	2.9/7	91	LC1-D50A
2.2	8.9	8.5	8.1	10	GV4P, PE or PEM	12.5	5/12.5	138	LC1-D50A
3	11.8	11.3	10.8	12.5	GV4P, PE or PEM	12.5	5/12.5	163	LC1-D50A
				25	NSX100	MicroLogic 2.2M or 6.2M	12/25	13Irth	LC1-D80
4	15.7	15	14.4	18	GV4P, PE or PEM	25	10/25	250	LC1-D65A
				25	NSX100	MicroLogic 2.2M or 6.2M	12/25	13Irth	LC1-D80
5.5	20.9	20	19.2	25	GV4P, PE or PEM	25	10/25	250	LC1-D65A
					NSX100	MicroLogic 2.2M or 6.2M	12/25	13Irth	LC1-D80
7.5	28.2	27	25.9	50	GV4P, PE or PEM	50	20/50		LC1-D65A
					NSX100	MicroLogic 2.2M or 6.2M	25/50	13Irth	LC1-D80
10	36.1	35	33.1	50	GV4P, PE or PEM	50	20/50		LC1-D65A
					NSX100	MicroLogic 2.2M or 6.2M	25/50	13Irth	LC1-D80
11	40	38	36	50	GV4P, PE or PEM	50	20/50		LC1-D65A
					NSX100	MicroLogic 2.2M or 6.2M	25/50	13Irth	LC1-D80
15	53	51	49	80	GV4P, PE or PEM	80	40/80		LC1-D65A
					NSX100	MicroLogic 2.2M or 6.2M	50/100	13Irth	LC1-D80
18.5	64	61	58	80	GV4P, PE or PEM	80	40/80		LC1-D80
					NSX100	MicroLogic 2.2M or 6.2M	50/100	13Irth	LC1-D80
22	75	72	69	115	GV4P, PE or PEM	115	65/115		LC1-D115 or LC1-F115
				100	NSX100	MicroLogic 2.2M or 6.2M	50/100	13Irth	LC1-D115 or LC1-F115
30	100	96	92	100	GV4P, PE or PEM	115	65/115		LC1-D115 or LC1-F115
					NSX100	MicroLogic 2.2M or 6.2M	50/100	13Irth	LC1-D115 or LC1-F115
37	120	115	110	150	NSX160	MicroLogic 2.2M or 6.2M	70/150	13Irth	LC1D150 or LC1-F150
45	146	140	134	150	NSX160	MicroLogic 2.2M or 6.2M	70/150	13Irth	LC1D150 or LC1-F150
55	177	169	185	185	NSX250	MicroLogic 2.2M or 6.2M	100/220	13Irth	LC1-F185
					NSX400	MicroLogic 2.3M or 6.3M	160/320	13Irth	LC1-F185
75	240	230	220	265	NSX400	MicroLogic 2.3M or 6.3M	160/320	13Irth	LC1-F265
90	291	278	266	320	NSX400	MicroLogic 2.3M or 6.3M	160/320	13Irth	LC1-F330
110	355	340	326	400	NSX630	MicroLogic 2.3M or 6.3M	250/500	13Irth	LC1-F400
132	418	400	383	500	NSX630	MicroLogic 2.3M or 6.3M	250/500	13Irth	LC1-F500
150	448	429	411	500	NSX630	MicroLogic 2.3M or 6.3M	250/500	13Irth	LC1-F500
160	509	487	467	630	NS800L	MicroLogic 5.0	320/800	8000	LC1-F630
200	637	609	584	630	NS800L	MicroLogic 5.0	320/800	8000	LC1-F630
220	700	658	631	700	NS800L	MicroLogic 5.0	320/800	9600	LC1-F780 or LC1F1000
250	782	748	717	800	NS1000L	MicroLogic 5.0	400/1000	10000	LC1-F780 or LC1F1000

[1] For class 30 the contacteur rating shall be checked according to 30s thermal withstand (F range).
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for MicroLogic 5.0 control unit.
[4] GV4PE and PEM only, for GV4 "S" performance with rotary handle, order GV4PE, PEM "S" & rotary handle separately.

Type 2 coordination (IEC 60947-4-1)

Ue: 380-400 V AC



Circuit breakers, contactors and thermal relays

Performance "Iq" (kA): U = 380-400V						
Circuit breaker	**B**	**F**	**N**	**H**	**S**	**L**
GV4L & LE 02 - 12	-	-	50	-	100 [4]	-
GV4L & LE 25 - 115	25	-	50	-	100 [4]	-
NSX100/160/250-MA	-	36	50	70	100	130
NSX400/630-MicroLogic 1.3M	-	36	50	70	100	130
NS800L/NS1000L MicroLogic 5.0	-	-	-	-	-	130

Starting [1]**:** normal LRD class 10 A, LR9 class 10.

Motors	**Guide values of operational current in amps at :**			**Circuit breakers**			**Contactors** [2]	**Thermal o/l relays**	
Rated power P(kW)	**380V**	**400V**	**Ie max**	**Type**	**rat(A)**	**Irm(A)** [3]	**Type**	**Type**	**Irth** [1]
0.18	0.63	0.6	1	GV4L or GV4LE	2	14	LC1-D09	LRD-05	0.63/1
0.25	0.89	0.85	1	GV4L or GV4LE	2	14	LC1-D09	LRD-05	0.63/1
0.37	1.16	1.1	1.6	GV4L or GV4LE	2	22	LC1-D09	LRD-06	1/1.6
0.55	1.58	1.5	2	GV4L or GV4LE	2	26	LC1-D09	LRD-06	1.6/2.5
0.75	2.00	1.9	2	GV4L or GV4LE	2	26	LC1-D09	LRD-07	1.6/2.5
1.1	2.8	2.7	3.5	GV4L or GV4LE	3.5	46	LC1-D25	LRD-08	2.5/4
1.5	3.8	3.6	7	GV4L or GV4LE	7	56	LC1-D32A + GV1L3 [6]	LRD-08	1.6/8
2.2	5.2	4.9	7	GV4L or GV4LE	7	84	LC1-D32A + GV1L3 [6]	LRD-10	1.6/8
3	6.8	6.5	7	GV4L or GV4LE	7	91	LC1-D40A	LRD-12 [5]	5.5/8
4	8.9	8.5	10	GV4L or GV4LE	12.5	138	LC1-D65A	LRD-14 [5]	7 /10
5.5	12.1	11.5	12.5	GV4L or GV4LE	12.5	163	LC1-D65A	LRD-313	9/13
7.5	16.3	15.5	18	GV4L or GV4LE	25	250	LC1-D65A	LRD-318	12/18
				NSX100-MA	25	250	LC1-D80	LRD 3321	12/18
10	20	19	25	GV4L or GV4LE	25	325	LC1-D65A	LRD-325	17/25
				NSX100-MA	25	325	LC1-D80	LRD 3322	17/25
11	23	22	25	GV4L or GV4LE	25	325	LC1-D65A	LRD-325	17/25
				NSX100-MA	25	450	LC1-D80	LRD 3322	17/25
15	31	29	32	GV4L or GV4LE	50	450	LC1-D65A	LRD-332	23/32
				NSX100-MA	50	450	LC1-D80	LRD-33 53	23/32
18.5	37	35	40	GV4L or GV4LE	50	550	LC1-D65A	LRD-340	30/40
				NSX100-MA	50	550	LC1-D80	LRD-33 55	30/40
22	43	41	50	GV4L or GV4LE	50	650	LC1-D65A	LRD-350	37/50
				NSX100-MA	50	650	LC1-D80	LRD-33 57	37/50
30	58	55	65	GV4L or GV4LE	80	880	LC1-D65A	LRD-365	48/65
			63	NSX100-MA	100	900	LC1-D80	LRD-33 59	48/65
37	69	66	80	GV4L or GV4LE	80	1040	LC1-D80	LRD-33 63	63/80
				NSX100-MA	100	1100	LC1-D80	LRD-33 63	63/80
45	84	80	100	GV4L or GV4LE	115	1380	LC1-D115	LR9D-5367	60/100
							LC1-F115	LR9-F5367	
				NSX100-MA	100	1300	LC1-D115	LR9-D53 67	60/100
							LC1-F115	LR9-F53 67	
55	102	97	115	GV4L or GV4LE	115	1495	LC1-D115	LR9D-5369	90/150
							LC1-F115	LR9-F5369	90/150
			150	NSX160-MA	150	1950	LC1-D150	LR9-D53 69	90/150
							LC1-F150	LR9-F53 69	90/150
75	139	132	150	NSX160-MA	150	1950	LC1-D150	LR9-D53 69	90/150
							LC1-F150	LR9-F53 69	90/150
90	168	160	185	NSX250-MA	220	2420	LC1-F185	LR9-F53 71	132/220
110	205	195	220	NSX250-MA	220	2860	LC1-F225	LR9-F53 71	132/220
				NSX400-MicroLogic 1.3M	320	3500	LC1-F265	LR9-F53 71	132/220
132	242	230	265	NSX400-MicroLogic 1.3M	320	3500	LC1-F265	LR9-F73 75	200/330
160	295	280	320	NSX400-MicroLogic 1.3M	320	4160	LC1-F330	LR9-F73 75	200/330
200	368	350	400	NSX630-MicroLogic 1.3M	500	5500	LC1-F400 (70kA)	LR9-F73 79	300/500
							LC1-F500 (130kA)	LR9-F73 79	300/500
220	400	380	500	NSX630-MicroLogic 1.3M	500	6500	LC1-F500	LR9-F73 79	300/500
250	453	430	500	NSX630-MicroLogic 1.3M	500	6500	LC1-F500	LR9-F73 79	300/500
300	526	500	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LR9-F73 81	380/630
315	568	540	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LR9-F73 81	380/630
355	642	610	780	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1-F780 or LC1 F1000	TC800/1 + LRD-05	500/800
400	726	690	780	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1-F780 or LC1 F1000	TC800/1 + LRD-05	500/800
450	789	750	780	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1-F780 or LC1 F1000	TC800/1 + LRD-05	500/800
500	895	850	900	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1-F1000	TC1000/1 + LRD-05	600/1000

[1] Heavy starting (class 20), see thermal O/L chart of equivalence.
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for MicroLogic 5.0 control unit.
[4] GV4LE only, for GV4 "S" performance with rotary handle, order GV4LE "S" & rotary handle separately.
[5] Separate overload Relay, use terminal block LAD7B106.
[6] GV1L3 to be mounted directly on supply side of the contactor.

Type 2 coordination (IEC 60947-4-1)

Ue: 380-400 V AC

Circuit breakers, and contactors

Performance "Iq" (kA): U = 380-400V						
Circuit breaker	**B**	**F**	**N**	**H**	**S**	**L**
GV4 P, PE & PEM 02 - 12	-	-	50	-	100 [4]	-
GV4 P, PE & PEM 25 - 115	25	-	50	-	100 [4]	-
NSX100/160/250 MicroLogic 2.2M / 6.2M	-	36	50	70	100	130
NSX400/630 MicroLogic 2.3M / 6.3M	-	36	50	70	100	130
NS800L/NS1000L MicroLogic 5.0	-	-	-	-	-	130

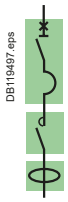
Starting [1]	Standard IEC 60947-4-1			
Trip unit	GV4P, PE or PEM	MicroLogic 2.2M / 2.3M	MicroLogic 6.2M / 6.3M	Mircologic 5.0
normal (classe)	10	5. 10	5. 10	10
long (classe)	20	20	20. 30 [1]	20

Motors Rated power	Guide values of operational current in amps at :			Circuit breakers				Contactors [2]
P(kW)	380V	400V	Ie max	Type	trip unit	Irth(A)	Irm(A) [3]	Type
0.18	0.63	0.6	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.25	0.89	0.85	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.37	1.16	1.1	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.55	1.58	1.5	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.75	2.00	1.9	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
1.1	2.8	2.7	3.5	GV4P, PE or PEM	3.5	1.4/3.5	60	LC1-D32
1.5	3.8	3.6	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D50A
2.2	5.2	4.9	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D50A
3	6.8	6.5	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D50A
4	8.9	8.5	12.5	GV4P, PE or PEM	12.5	5/12.5	213	LC1-D50A
5.5	12.1	11.5	12.5	GV4P, PE or PEM	12.5	5/12.5	213	LC1-D50A
7.5	16.3	15.5	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
			25	NSX100	MicroLogic 2.2M or 6.2M	12/25	13Irth	LC1-D80
10	20	19	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
				NSX100	MicroLogic 2.2M or 6.2M	12/25	13Irth	LC1-D80
11	23	22	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
				NSX100	MicroLogic 2.2M or 6.2M	12/25	13Irth	LC1-D80
15	31	29	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
				NSX100	MicroLogic 2.2M or 6.2M	25/50	13Irth	LC1-D80
18.5	37	35	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
				NSX100	MicroLogic 2.2M or 6.2M	25/50	13Irth	LC1-D80
22	43	41	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
				NSX100	MicroLogic 2.2M or 6.2M	25/50	13Irth	LC1-D80
30	58	55	65	GV4P, PE or PEM	80	40/80	1360	LC1-D65A
			80	NSX100	MicroLogic 2.2M or 6.2M	50/100(80)	13Irth	LC1-D80
37	69	66	80	GV4P, PE or PEM	80	40/80	1360	LC1-D80
				NSX100	MicroLogic 2.2M or 6.2M	50/100(80)	13Irth	LC1-D80
45	84	80	115	GV4P, PE or PEM	115	65/115	1955	LC1-D115 or LC1-F115
			100	NSX100	MicroLogic 2.2M	50/100	13Irth	LC1-D115 or LC1-F115
55	102	97	115	GV4P, PE or PEM	115	65/115	1955	LC1-D115 or LC1-F115
				NSX160	MicroLogic 2.2M or 6.2M	70/150	13Irth	LC1-D150 or LC1-F150
75	139	132	150	NSX160	MicroLogic 2.2M or 6.2M	70/150	13Irth	LC1-D150 or LC1-F150
90	168	160	185	NSX250	MicroLogic 2.2M or 6.2M	100/220	13Irth	LC1-F225
110	205	195	220	NSX250	MicroLogic 2.2M or 6.2M	100/220	13Irth	LC1-F225
			265	NSX400	MicroLogic 2.3M or 6.3M	160/320	13Irth	LC1-F265
132	242	230	265	NSX400	MicroLogic 2.3M or 6.3M	160/320	13Irth	LC1-F265
160	295	280	320	NSX400	MicroLogic 2.3M or 6.3M	160/320	13Irth	LC1-F330
200	368	350	400	NSX630	MicroLogic 2.3M or 6.3M	250/500	13Irth	LC1-F400 (70kA)
			500	NSX630	MicroLogic 2.3M or 6.3M	250/500	13Irth	LC1-F500 (130kA)
220	400	380	500	NSX630	MicroLogic 2.3M or 6.3M	250/500	13Irth	LC1-F500
250	453	430	500	NSX630	MicroLogic 2.3M or 6.3M	250/500	13Irth	LC1-F500
300	526	500	630	NS800L	MicroLogic 5.0	320/800	8000	LC1-F630
315	568	540	630	NS800L	MicroLogic 5.0	320/800	8000	LC1-F630
355	642	610	780/900	NS1000L	MicroLogic 5.0	400/1000	10 000	LC1-F780 or LC1-F1000
400	726	690	780/900	NS1000L	MicroLogic 5.0	400/1000	10 000	LC1-F780 or LC1-F1000
450	789	750	780/900	NS1000L	MicroLogic 5.0	400/1000	10 000	LC1-F780 or LC1-F1000
500	895	850	900	NS1000L	MicroLogic 5.0	400/1000	10 000	LC1-F1000

[1] For class 30 the contacteur rating shall be checked according to 30s thermal withstand (F range).
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for MicroLogic 5.0 control unit.
[4] GV4PE and PEM only, for GV4 "S" performance with rotary handle, order GV4PE, PEM "S" & rotary handle separately.

Type 2 coordination (IEC 60947-4-1)

Ue: 380-400 V AC



With short circuit breaker protection

Contactor

Thermal relay on CT

Circuit breakers, contactors and thermal relays

Performance "Iq" (kA): U = 380-400V						
Circuit breaker	**B**	**F**	**N**	**H**	**S**	**L**
GV4L & LE 02 - 12	-	-	50	-	100 [4]	-
GV4L & LE 25 - 115	25	-	50	-	100 [4]	-
NSX100/160/250-MA	-	36	50	70	100	130
NSX400/630-MA	-	36	50	70	100	130
NS800L/NS1000L MicroLogic 5.0	-	-	-	-	-	130

Starting [1]**:** adjustable class 10 A to 30.

Motors Rated power	Guide values of operational current in amps at :			Circuit breakers			Contactors [2]	Thermal o/l relays Adj. class 10A to 30	
P(kW)	**380V**	**400V**	**Ie max**	**Type**	**rat(A)**	**Irm(A)**	**Type**	**Type**	**Irth [1]**
0.18	0.63	0.6	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0.4/8
0.25	0.89	0.85	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0.4/8
0.37	1.16	1.1	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0.4/8
0.55	1.58	1.5	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0.4/8
0.75	2.00	1.9	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0.4/8
1.1	2.8	2.7	3.5	GV4L or GV4LE	3.5	46	LC1-D40A	LTM R08	0.4/8
1.5	3.8	3.6	7	GV4L or GV4LE	7	91	LC1-D40A	LTM R08	0.4/8
2.2	5.2	4.9	7	GV4L or GV4LE	7	91	LC1-D40A	LTM R08	0.4/8
3	6.8	6.5	7	GV4L or GV4LE	7	91	LC1-D40A	LTM R08	0.4/8
4	8.9	8.5	10	GV4L or GV4LE	12.5	138	LC1-D65A	LTM R27	1.35/27
			12.5	NSX100-MA	12.5	163	LC1-D80	LTM R27	1.35/27
5.5	12.1	11.5	12.5	GV4L or GV4LE	12.5	163	LC1-D65A	LTM R27	1.35/27
				NSX100-MA	12.5	163	LC1-D80	LTM R27	1.35/27
7.5	16.3	15.5	25	GV4L or GV4LE	25	325	LC1-D65A	LTM R27	1.35/27
				NSX100-MA	25	325	LC1-D80	LTM R27	1.35/27
10	20	19	25	GV4L or GV4LE	25	325	LC1-D65A	LTM R27	1.35/27
				NSX100-MA	25	325	LC1-D80	LTM R27	1.35/27
11	23	22	25	GV4L or GV4LE	25	325	LC1-D65A	LTM R27	1.35/27
				NSX100-MA	25	325	LC1-D80	LTM R27	1.35/27
15	31	29	32	GV4L or GV4LE	50	550	LC1-D65A	LTM R100	5/100
			32	NSX100-MA	50	550	LC1-D80	LTM R100	5/100
18.5	37	35	40	GV4L or GV4LE	50	550	LC1-D65A	LTM R100	5/100
			50	NSX100-MA	50	550	LC1-D80	LTM R100	5/100
22	43	41	50	GV4L or GV4LE	50	650	LC1-D65A	LTM R100	5/100
				NSX100-MA	50	550	LC1-D80	LTM R100	5/100
30	58	55	65	GV4L or GV4LE	80	880	LC1-D65A	LTM R100	5/100
			80	NSX100-MA	100	1100	LC1-D80	LTM R100	5/100
37	69	66	80	GV4L or GV4LE	80	1040	LC1-D80	LTM R100	5/100
				NSX100-MA	100	1100	LC1-D80	LTM R100	5/100
45	84	80	92	GV4L or GV4LE	115	1265	LC1-D115 or F115	LTM R100	5/100
			100	NSX160-MA	150	1300	LC1-D115 or F115	LTM R100	5/100
55	102	97	110	GV4L or GV4LE	115	1495	LC1-D115 or F115	LTM R08	on CT
			115	NSX160-MA	150	1300	LC1-D115 or F115	LTM R08	on CT
75	139	132	150	NSX160-MA	150	1950	LC1-D150 or F150	LTM R08	on CT
90	168	160	185	NSX250-MA	220	2420	LC1-F185	LTM R08	on CT
110	205	195	220	NSX250-MA	220	2860	LC1-F225	LTM R08	on CT
			265	NSX400 1.3M	320	3500	LC1-F265		
132	242	230	265	NSX400 1.3M	320	3500	LC1-F265	LTM R08	on CT
160	295	280	320	NSX400 1.3M	320	4000	LC1-F330	LTM R08	on CT
200	368	350	400	NSX630-1.3M	500	5500	LC1-F400 (70kA)	LTM R08	on CT
			500	NSX630-1.3M	500	5500	LC1-F500 (130kA)	LTM R08	on CT
220	400	380	500	NSX630-1.3M	500	6500	LC1-F500	LTM R08	on CT
250	453	430	500	NSX630-1.3M	500	6500	LC1-F500	LTM R08	on CT
300	526	500	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LTM R08	on CT
315	568	540	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LTM R08	on CT
355	642	610	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LTM R08	on CT
400	726	690	780	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1-F780 or LC1F1000	LTM R08	on CT
450	789	750	780	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1-F780 or LC1F1000	LTM R08	on CT
500	895	850	780	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1-F780 or LC1F1000	LTM R08	on CT
500		850	900.00	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1-F1000	LTM R08	on CT

[1] For installations with a class 30 relay, a derating of 20% must be apply on Circuit breakers and the contacteur rating shall be checked according to 30s thermal withstand (F range).
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for MicroLogic 5.0 control unit.
[4] GV4LE only, for GV4 "S" performance with rotary handle, order GV4LE "S" & rotary handle separately.

Type 2 coordination (IEC 60947-4-1)

Ue: 415 V AC

Magnetic circuit breaker (MA)

Contactor

Thermal relay

Circuit breakers, contactors and thermal relays

Performance "Iq" (kA): U = 415V						
Circuit breaker	**B**	**F**	**N**	**H**	**S**	**L**
GV4L & LE 02 - 12	-	-	50	-	100 [4]	-
GV4L & LE 25 - 115	25	-	50	-	100 [4]	-
NSX100/160/250-MA	-	36	50	70	100	130
NSX400/630-MicroLogic 1.3M	-	36	50	70	100	130
NS800L/NS1000L MicroLogic 5.0	-	-	-	-	-	130

Starting [1]**:** normal LRD class 10 A, LR9 class 10.

Motors Rated power	Guide values of operational current in amps at :		Circuit breakers			Contactors [2]	Thermal o/l relays	
P(kW)	**415V**	**Ie max**	**Type L/LE**	**rat(A)**	**Irm(A)** [3]	**Type**	**Type**	**Irth** [1]
0.18	0.58	1	GV4L or GV4LE	2	14	LC1-D09	LRD-05	0.63/1
0.25	0.82	1	GV4L or GV4LE	2	14	LC1-D09	LRD-05	0.63/1
0.37	1.06	1.6	GV4L or GV4LE	2	22	LC1-D09	LRD-06	1/1.6
0.55	1.45	2	GV4L or GV4LE	2	26	LC1-D09	LRD-06	1.6/2.5
0.75	1.83	2	GV4L or GV4LE	2	26	LC1-D09	LRD-07	1.6/2.5
1.1	2.60	3.5	GV4L or GV4LE	3.5	46	LC1-D25	LRD-08	2.5/4
1.5	3.5	4	GV4L or GV4LE	7	56	LC1-D32 + GV1L3 [6]	LRD-08	2.5/4
2.2	4.7	6	GV4L or GV4LE	7	84	LC1-D32 + GV1L3 [6]	LRD-10	4/6
3	6.3	7	GV4L or GV4LE	7	91	LC1-D40A	LRD-12 [5]	5.5/8
4	8.2	10	GV4L or GV4LE	12.5	138	LC1-D65A	LRD-14 [5]	7 /10
5.5	11.1	12.5	GV4L or GV4LE	12.5	163	LC1-D65A	LRD-313	9/13
7.5	14.9	18	GV4L or GV4LE	25	250	LC1-D65A	LRD-318	12/18
			NSX100-MA	25	250	LC1-D80	LRD 3321	12/18
10	18.3	25	GV4L or GV4LE	25	325	LC1-D65A	LRD-325	17/25
			NSX100-MA	25	325	LC1-D80	LRD 3322	17/25
11	21.2	25	GV4L or GV4LE	25	325	LC1-D65A	LRD-325	17/25
			NSX100-MA	25	325	LC1-D80	LRD 3322	17/25
15	28.0	32	GV4L or GV4LE	50	450	LC1-D65A	LRD-332	23/32
			NSX100-MA	50	450	LC1-D80	LRD-33 53	23/32
18.5	33.7	40	GV4L or GV4LE	50	550	LC1-D65A	LRD-340	30/40
			NSX100-MA	50	550	LC1-D80	LRD-33 55	30/40
22	39.5	50	GV4L or GV4LE	50	650	LC1-D65A	LRD-350	37/50
		40	NSX100-MA	50	550	LC1-D80	LRD-33 55	30/40
30	53.0	63	GV4L or GV4LE	80	880	LC1-D65A	LRD-365	48/65
			NSX100-MA	100	1100	LC1-D80	LRD-33 59	48/65
37	63.6	80	GV4L or GV4LE	80	1040	LC1-D80	LRD-33 63	63/80
			NSX100-MA	100	1100	LC1-D80	LRD-33 63	63/80
45	77.1	80	GV4L or GV4LE	80	1040	LC1-D80	LRD-33 63	63/80
			NSX100-MA	100	1100	LC1-D80	LRD-33 63	63/80
55	93.5	115	GV4L or GV4LE	115	1495	LC1-D115	LR9D-5369	90/150
						LC1-F115	LR9-F5369	
		150	NSX160-MA	150	1950	LC1-D150	LR9-D53 69	90/150
						LC1-F150	LR9-F53 69	
75	127.2	150	NSX160-MA	150	1950	LC1-D150	LR9-D53 69	90/150
						LC1-F150	LR9-F53 69	
90	154.2	185	NSX250-MA	220	2420	LC1-F185	LR9-F53 71	132/220
110	188.0	220	NSX250-MA	220	2860	LC1-F225	LR9-F53 71	132/220
132	221.7	265	NSX400-MicroLogic 1.3M	320	3500	LC1-F265	LR9-F73 75	200/330
160	269.9	320	NSX400-MicroLogic 1.3M	320	4160	LC1-F330	LR9-F73 75	200/330
200	337.3	400	NSX630-MicroLogic 1.3M	500	5500	LC1-F400 (70kA)	LR9-F73 79	300/500
		500	NSX630-MicroLogic 1.3M	500	5500	LC1-F500 (130kA)	LR9-F73 79	300/500
220	366.3	400	NSX630-MicroLogic 1.3M	500	6500	LC1-F400 (70kA)	LR9-F73 79	300/500
		500	NSX630-MicroLogic 1.3M	500	6500	LC1-F500 (130kA)	LR9-F73 79	300/500
250	414.5	500	NSX630-MicroLogic 1.3M	500	6500	LC1-F500	LR9-F73 79	300/500
300	481.9	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LR9-F73 81	380/630
315	520.5	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LR9-F73 81	380/630
355	588.0	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LR9-F73 81	380/630
400	665.1	780	NS1000L - MicroLogic 5.0 - LR off	1000	9600	LC1-F780/ LC1F1000	TC800/1 + LRD-05	500/800
450	722.9	780	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1-F780/ LC1F1000	TC800/1 + LRD-05	500/800
500	819.3	850	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1-F1000	TC1000/1 + LRD-05	500/1000

[1] Heavy starting (class 20), see thermal O/L chart of equivalence.
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for MicroLogic 5.0 control unit.
[4] GV4LE only, for GV4 "S" performance with rotary handle, order GV4LE "S" & rotary handle separately.
[5] Separate overload Relay, use terminal block LAD7B106.
[6] GV1L3 to be mounted directly on supply side of the contactor.

Type 2 coordination (IEC 60947-4-1)

Ue: 415 V AC

Circuit breakers, contactors

Performance "Iq" (kA): Ue = 415 V						
Circuit breaker	**B**	**F**	**N**	**H**	**S**	**L**
GV4 P, PE & PEM 02 - 12	-	-	50	-	100 [4]	-
GV4 P, PE & PEM 25 - 115	25	-	50	-	100 [4]	-
NSX100/160/250 MicroLogic 2.2M / 6.2M	-	36	50	70	100	130
NSX400/630 MicroLogic 2.3M / 6.3M	-	36	50	70	100	130
NS800L/NS1000L MicroLogic 5.0	-	-	-	-	-	130

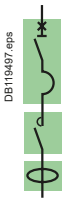
Starting [1]	**Standard IEC 60947-4-1**			
Trip unit	GV4P, PE or PEM	MicroLogic 2.2M / 2.3M	MicroLogic 6.2M / 6.3M	Mircologic 5.0
normal (classe)	10	5. 10	5. 10	10
long (classe)	20	20	20. 30 [1]	20

Motors Rated power	**Guide values of operational current in amps at :**		**Circuit breakers**				**Contactors** [2]
P(kW)	**415V**	**Ie max**	**Type**	**trip unit**	**Irth(A)**	**Irm(A)** [3]	**Type**
0.18	0.58	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.25	0.82	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.37	1.06	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.55	1.45	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.75	1.83	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
1.1	2.60	3.5	GV4P, PE or PEM	3.5	1.4/3.5	60	LC1-D32
1.5	3.5	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D50A
2.2	4.7	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D50A
3	6.3	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D50A
4	8.2	12.5	GV4P, PE or PEM	12.5	5/12.5	213	LC1-D50A
5.5	11.1	12.5	GV4P, PE or PEM	12.5	5/12.5	213	LC1-D50A
7.5	15	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
			NSX100	MicroLogic 2.2M or 6.2M	12/25	13Irth	LC1-D80
10	18	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
			NSX100	MicroLogic 2.2M or 6.2M	12/25	13Irth	LC1-D80
11	21	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
			NSX100	MicroLogic 2.2M or 6.2M	12/25	13Irth	LC1-D80
15	28	50	GV4P, PE or PEM	50	10/25	850	LC1-D65A
			NSX100	MicroLogic 2.2M or 6.2M	25/50	13Irth	LC1-D80
18.5	34	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
			NSX100	MicroLogic 2.2M or 6.2M	25/50	13Irth	LC1-D80
22	40	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
			NSX100	MicroLogic 2.2M or 6.2M	25/50	13Irth	LC1-D80
30	53	65	GV4P, PE or PEM	80	40/80	1360	LC1-D65A
		80	NSX100	MicroLogic 2.2M or 6.2M	50/100(80)	13Irth	LC1-D80
37	64	80	GV4P, PE or PEM	80	40/80	1360	LC1-D80
			NSX100	MicroLogic 2.2M or 6.2M	50/100(80)	13Irth	LC1-D80
45	77	115	GV4P, PE or PEM	115	65/115	1955	LC1-D115 or LC1-F115
		100	NSX100	MicroLogic 2.2M	50/100	13Irth	LC1-D115 or LC1-F115
55	94	115	GV4P, PE or PEM	115	65/115	1955	LC1-D115 or LC1-F115
		150	NSX160	MicroLogic 2.2M or 6.2M	70/150	13Irth	LC1-D150 or LC1-F150
75	127	150	NSX160	MicroLogic 2.2M or 6.2M	70/150	13Irth	LC1-D150 or LC1-F150
90	154	185	NSX250	MicroLogic 2.2M or 6.2M	100/220	13Irth	LC1-F225
110	188	220	NSX250	MicroLogic 2.2M or 6.2M	100/220	13Irth	LC1-F225
132	222	265	NSX400	MicroLogic 2.3M or 6.3M	160/320	13Irth	LC1-F265
160	270	320	NSX400	MicroLogic 2.3M or 6.3M	160/320	13Irth	LC1-F330
200	337	400	NSX630	MicroLogic 2.3M or 6.3M	250/500	13Irth	LC1-F400 (70kA)
		500	NSX630	MicroLogic 2.3M or 6.3M	250/500	13Irth	LC1-F500 (130kA)
220	366	400	NSX630	MicroLogic 2.3M or 6.3M	250/500	13Irth	LC1-F400 (70kA)
		500	NSX630	MicroLogic 2.3M or 6.3M	250/500	13Irth	LC1-F500 (130kA)
250	415	500	NSX630	MicroLogic 2.3M or 6.3M	250/500	13Irth	LC1-F500
300	482	630	NS800L	MicroLogic 5.0	320/800	8000	LC1-F630
315	521	630	NS800L	MicroLogic 5.0	320/800	8000	LC1-F630
355	588	780	NS1000L	MicroLogic 5.0	400/1000	10000	LC1-F780 or LC1F1000
400	665	780	NS1000L	MicroLogic 5.0	400/1000	10000	LC1-F780 or LC1F1000
450	723	780	NS1000L	MicroLogic 5.0	400/1000	10000	LC1-F780 or LC1F1000
500	819	850	NS1000L	MicroLogic 5.0	400/1000	10000	LC1F1000

[1] For class 30 the contacteur rating shall be checked according to 30s thermal withstand (F range).
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for MicroLogic 5.0 control unit.
[4] GV4PE and PEM only, for GV4 "S" performance with rotary handle, order GV4PE, PEM "S" & rotary handle separately

Type 2 coordination (IEC 60947-4-1)

Ue: 415 V AC



With short circuit breaker protection

Contactor

Thermal relay on CT

Circuit breakers, contactors and thermal relays

Performance "Iq" (kA): Ue = 415 V						
Circuit breakers	**B**	**F**	**N**	**H**	**S**	**L**
GV4 L & LE 02 - 12	-	-	50	-	100 [4]	-
GV4 L & LE 25 - 115	25	-	50	-	100 [4]	-
NSX100/160/250-MA	-	36	50	70	100	130
NSX400/630-MA	-	36	50	70	100	130
NS800L/NS1000L MicroLogic 5.0	-	-	-	-	-	130

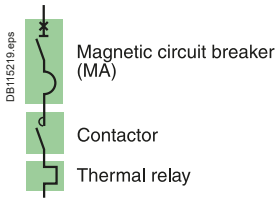
Starting [1]: adjustable class 10 A to 30.

Motors Rated power	**Guide values of operational current in amps at :**		**Circuit breakers**			**Contactors** [2]	**Thermal o/l relays** Adj. class 10A to 30	
P(kW)	**415V**	**Ie max**	**Type**	**rat(A)**	**Irm(A)**	**Type**	**Type**	**Irth** [1]
0.18	0.58	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0.4/8
0.25	0.82	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0.4/8
0.37	1.06	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0.4/8
0.55	1.45	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0.4/8
0.75	1.83	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0.d4/8
1.1	2.60	3.5	GV4L or GV4LE	3.5	46	LC1-D40A	LTM R08	0.4/8
1.5	3.5	7	GV4L or GV4LE	7	91	LC1-D40A	LTM R08	0.4/8
2.2	4.7	7	GV4L or GV4LE	7	91	LC1-D40A	LTM R08	0.4/8
3	6.3	7	GV4L or GV4LE	7	91	LC1-D40A	LTM R08	0.4/8
4	8.2	10	GV4L or GV4LE	12.5	138	LC1-D65A	LTM R27	1.35/27
		12.5	NSX100-MA	12.5	163	LC1-D80	LTM R27	1.35/27
5.5	11.1	12.5	GV4L or GV4LE	12.5	163	LC1-D65A	LTM R27	1.35/27
			NSX100-MA	12.5	163	LC1-D80	LTM R27	1.35/27
7.5	14.9	25	GV4L or GV4LE	25	325	LC1-D65A	LTM R27	1.35/27
			NSX100-MA	25	325	LC1-D80	LTM R27	1.35/27
10	18.3	25	GV4L or GV4LE	25	325	LC1-D65A	LTM R27	1.35/27
			NSX100-MA	25	325	LC1-D80	LTM R27	1.35/27
11	21.2	25	GV4L or GV4LE	25	325	LC1-D65A	LTM R27	1.35/27
			NSX100-MA	25	325	LC1-D80	LTM R27	1.35/27
15	28.0	32	GV4L or GV4LE	50	550	LC1-D65A	LTM R100	5/100
		32	NSX100-MA	50	650	LC1-D80	LTM R100	5/100
18.5	33.7	40	GV4L or GV4LE	50	550	LC1-D65A	LTM R100	5/100
		50	NSX100-MA	50	650	LC1-D80	LTM R100	5/100
22	39.5	50	GV4L or GV4LE	50	650	LC1-D65A	LTM R100	5/100
			NSX100-MA	50	650	LC1-D80	LTM R100	5/100
30	53.0	65	GV4L or GV4LE	80	880	LC1-D65A	LTM R100	5/100
		80	NSX100-MA	100	1100	LC1-D80	LTM R100	5/100
37	63.6	80	GV4L or GV4LE	80	1040	LC1-D80	LTM R100	5/100
			NSX100-MA	100	1100	LC1-D80	LTM R100	5/100
45	77.1	115	GV4L or GV4LE	115	1265	LC1-D115 or LC1-F115	LTM R100	5/100
		100	NSX100-MA	100	1100	LC1-D115 or LC1-F115	LTM R100	5/100
55	93.5	115	GV4L or GV4LE	115	1495	LC1-D115 or LC1-F115	LTM R08	sur TC/on CT
		150	NSX160-MA	150	1950	LC1-D150 or LC1F50	LTM R08	sur TC/on CT
75	127.2	150	NSX160-MA	150	1950	LC1-D150 or LC1F50	LTM R08	sur TC/on CT
90	154.2	185	NSX250-MA	220	2420	LC1-F185	LTM R08	sur TC/on CT
110	188.0	220	NSX250-MA	220	2860	LC1-F225	LTM R08	sur TC/on CT
132	221.7	265	NSX400 1.3M	320	3500	LC1-F265		
160	269.9	320	NSX400 1.3M	320	4000	LC1-F330	LTM R08	sur TC/on CT
200	337.3	400	NSX630-1.3M	500	5500	LC1-F400 (70kA)	LTM R08	sur TC/on CT
		500			6300	LC1-F500 (130kA)	LTM R08	sur TC/on CT
220	366.3	400	NSX630-1.3M	500	5500	LC1-F400 (70kA)	LTM R08	sur TC/on CT
		500			6300	LC1-F500 (130kA)	LTM R08	sur TC/on CT
250	414.5	500	NSX630-1.3M	500	6300	LC1-F500	LTM R08	sur TC/on CT
300	481.9	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LTM R08	sur TC/on CT
315	520.5	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LTM R08	sur TC/on CT
355	588.0	780	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1-F780 or LC1F1000	LTM R08	sur TC/on CT
400	665.1	780	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1-F780 or LC1F1000	LTM R08	sur TC/on CT
450	722.9	780	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1-F780 or LC1F1000	LTM R08	sur TC/on CT
500	819.3	900	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1F1000	LTM R08	sur TC/on CT

[1] For installations with a class 30 relay, a derating of 20% must be apply on Circuit breakers and the contacteur rating shall be checked according to 30s thermal withstand (F range).
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for MicroLogic 5.0 control unit.
[4] GV4LE only, for GV4 "S" performance with rotary handle, order GV4LE "S" & rotary handle separately

Type 2 coordination (IEC 60947-4-1)

Ue: 440 V AC



Circuit breakers, contactors and thermal relays

Performance "Iq" (kA): Ue = 440V [2]						
Circuit breakers	**B**	**F**	**N**	**H**	**S**	**L**
GV4L & LE 02 - 12	-	-	50	-	70 [4]	-
GV4L & LE 25 - 115	20	-	50	-	70 [4]	-
NSX100/160/250-MA	-	35	50	65	90	130
NSX400/630-MicroLogic 1.3M	-	30	42	65	90	130
NS630bL/NS800L/NS1000L MicroLogic 5.0	-	-	-	-	-	130

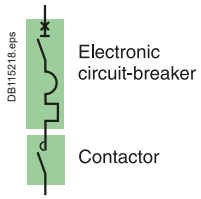
Starting [1]: normal LRD class 10 A, LR9 class 10.

Motors	**Guide values of operational current in amps at :**		**Circuit breakers**			**Contactors** [2]	**Thermal o/l relays**	
Rated power P(kW)	**440V (A)**	**Ie max**	**Type**	**rat(A)**	**Irm(A)** [6]	**Type**	**Type**	**Irth** [1]
0.18	0.55	1	GV4L or GV4LE	2	14	LC1-D09	LRD-05	0.63/1
0.25	0.77	1	GV4L or GV4LE	2	14	LC1-D09	LRD-05	0.63/1
0.37	1	1.6	GV4L or GV4LE	2	22	LC1-D09	LRD-06	1/1.6
0.55	1.36	1.6	GV4L or GV4LE	2	22	LC1-D09	LRD-06	1/1.6
0.75	1.7	2	GV4L or GV4LE	2	26	LC1-D09	LRD-07	1.6/2.5
1.1	2.4	2.5	GV4L or GV4LE	3.5	35	LC1-D25 + GV1L3 [7]	LR9D07	1.6/2.5
1.5	3.3	3.5	GV4L or GV4LE	3.5	46	LC1-D32 + GV1L3 [7]	LR9D08	2.5/4
2.2	4.5	5	GV4L or GV4LE	7	70	LC1-D32 + GV1L3 [7]	LR9D10	4/6
3	5.9	7	GV4L or GV4LE	7	91	LC1-D40A	LRD-12 [5]	5.5/8
4	7.7	8	GV4L or GV4LE	12.5	113	LC1-D65A	LRD-12 [5]	5.5/8
5.5	10.5	12.5	GV4L or GV4LE	12.5	163	LC1-D65A	LRD-313	9/13
7.5	14	16	GV4L or GV4LE	25	225	LC1-D65A	LRD-318	12/18
		18	NSX100-MA	25	250	LC1-D80	LRD 3321	12/18
10	18.2	25	GV4L or GV4LE	25	325	LC1-D65A	LRD-325	17/25
			NSX100-MA	25	325	LC1-D80	LRD 3322	17/25
11	20	25	GV4L or GV4LE	25	325	LC1-D65A	LRD-325	17/25
			NSX100-MA	25	325	LC1-D80	LRD 3322	17/25
15	26	32	GV4L or GV4LE	50	450	LC1-D65A	LRD-332	23/32
			NSX100-MA	50	450	LC1-D80	LRD-3353	23/32
18.5	32	40	GV4L or GV4LE	50	550	LC1-D65A	LRD-340	30/40
			NSX100-MA	50	550	LC1-D80	LRD-3355	30/40
22	38	40	GV4L or GV4LE	50	550	LC1-D65A	LRD-340	30/40
			NSX100-MA	50	550	LC1-D80	LRD-3355	30/40
30	50	65	GV4L or GV4LE	80	880	LC1-D65A	LRD-365	48/65
		63	NSX100-MA	100	900	LC1-D80	LRD-3359	48/65
37	60	65	GV4L or GV4LE	80	880	LC1-D65A	LRD-365	48/65
		63	NSX100-MA	100	900	LC1-D80	LRD-3359	48/65
45	73	80	GV4L or GV4LE	80	1040	LC1-D80	LRD-33 63	63/80
			NSX100-MA	100	1100	LC1-D80	LRD-3363	63/80
55	88	100	GV4L or GV4LE	115	1380	LC1-D115	LR9-D5367	60/100
						LC1-F115	LR9-F5367	
			NSX100-MA	100	1300	LC1-D115	LR9-D5367	60/100
						LC1-F115	LR9-F5367	
75	120	150	NSX160-MA	150	1950	LC1-D150	LR9-D5369	90/150
						LC1-F150	LR9-F5369	
90	145	150	NSX160-MA	150	1950	LC1-D150	LR9-D5369	90/150
						LC1-F150	LR9-F5369	
110	177	185	NSX250-MA	220	2420	LC1-F185	LR9-F5371	132/220
132	209	265	NSX400-MicroLogic 1.3M	320	3500	LC1-F265	LR9-F5371	132/220
160	255	265	NSX400 MicroLogic 1.3M	320	3500	LC1-F265	LR9-F7375	200/330
200	318	320	NSX400 MicroLogic 1.3M	320	4160	LC1-F330	LR9-F7375	200/330
220	343	400	NSX630-MicroLogic 1.3M	500	5500	LC1-F400 (70kA)	LR9-F7379	300/500
						LC1-F500 (130kA)	LR9-F7379	300/500
250	390	500	NSX630-MicroLogic 1.3M	500	6500	LC1-F500	LR9-F7379	300/500
300	466	500	NSX630-MicroLogic 1.3M	500	6500	LC1-F500	LR9-F7379	300/500
315	490	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LR9-F7381	380/630
355	554	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LR9-F7381	380/630
375	587	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LR9-F7381	380/630
400	627	720	NS800L - MicroLogic 5.0 - LR off	800	9600	LC1-F780 or LC1F1000	TC800/1 + LRD-05	500/800
450	695	720	NS800L - MicroLogic 5.0 - LR off	800	9600	LC1-F780 or LC1F1000	TC800/1 + LRD-05	500/800
500	772	780	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1F1000	TC800/1 + LRD-05	500/800
560	863	900	NS1000L - MicroLogic 5.0 - LR off	1000	10000	LC1F1000	TC1000/1 + LRD-05	600/1000

[1] For long starting (class 20), see the correspondence table for thermal relay.
[2] For 480V Consult us.
[3] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[4] GV4LE only, for GV4 "S" performance with rotary handle, order GV4LE "S" & rotary handle separately.
[5] separate overload Relay, use terminal block LAD7B106.
[6] Ii for MicroLogic 5.0 control unit.
[7] GV1L3 to be mounted directly on supply side of the contactor.

Type 2 coordination (IEC 60947-4-1)

Ue: 440 V AC



Circuit breakers, and contactors

Performance "Iq" (kA): Ue = 440V [2]						
Circuit breaker	**B**	**F**	**N**	**H**	**S**	**L**
GV4 P, PE & PEM 02 - 12	-	-	50	-	70 [5]	-
GV4 P, PE & PEM 25 - 115	20		50	-	70 [5]	-
NSX100/160/250-MA	-	35	42	65	90	130
NSX400/630-MA	-	30	42	65	90	130
NS630bL/NS800L/NS1000L MicroLogic 5.0	-	-	-	-	-	130

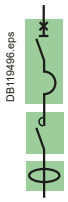
Starting [1]	Standard IEC 60947-4-1			
Trip unit	GV4P, PE or PEM	MicroLogic 2.2M / 2.3M	MicroLogic 6.2M / 6.3M	Mircologic 5.0
normal (classe)	10	5. 10	5. 10	10
long (classe)	20	20	20. 30 [1]	20

Motors Rated power	Guide values of operational current in amps at :		Circuit breakers				Contactors [2]
P(kW)	440V (A)	Ie max (A)	Type	trip unit	Irth(A)	Irm(A) [4]	Type
0.18	0.55	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.25	0.77	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.37	1	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.55	1.36	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
0.75	1.7	2	GV4P, PE or PEM	2	0.8/2	34	LC1-D25
1.1	2.4	2.5	GV4P, PE or PEM	3.5	1.4/3.5	60	LC1-D32
1.5	3.3	3.5	GV4P, PE or PEM	3.5	1.4/3.5	60	LC1-D32
2.2	4.5	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D65A
3	5.9	7	GV4P, PE or PEM	7	2.9/7	119	LC1-D65A
4	7.7	12.5	GV4P, PE or PEM	12.5	5/12.5	213	LC1-D65A
5.5	10.5	12.5	GV4P, PE or PEM	12.5	5/12.5	213	LC1-D65A
7.5	14	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
		20	NSX100	MicroLogic 2.2M / 6.2M	12/20	13Irth	LC1-D80
10	18.2	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
			NSX100	MicroLogic 2.2M / 6.2M	15/25	13Irth	LC1-D80
11	20	25	GV4P, PE or PEM	25	10/25	425	LC1-D65A
			NSX100	MicroLogic 2.2M / 6.2M	15/25	13Irth	LC1-D80
15	26	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
		40	NSX100	MicroLogic 2.2M / 6.2M	24/40	13Irth	LC1-D80
18.5	32	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
		40	NSX100	MicroLogic 2.2M / 6.2M	24/40	13Irth	LC1-D80
22	38	50	GV4P, PE or PEM	50	20/50	850	LC1-D65A
		40	NSX100	MicroLogic 2.2M / 6.2M	24/40	13Irth	LC1-D80
30	50	63	GV4P, PE or PEM	80	40/80	1360	LC1-D65A
		80	NSX100	MicroLogic 2.2M / 6.2M	48/80	13Irth	LC1-D80
37	60	63	GV4P, PE or PEM	80	40/80	1360	LC1-D65A
		80	NSX100	MicroLogic 2.2M / 6.2M	48/80	13Irth	LC1-D80
45	73	80	GV4P, PE or PEM	80	40/80	1360	LC1-D80
			NSX100	MicroLogic 2.2M / 6.2M	48/80	13Irth	LC1-D80
55	88	100	GV4P, PE or PEM	115	65/115	1955	LC1-D115 or LC1-F115
			NSX100	MicroLogic 2.2M / 6.2M	60/100	13Irth	LC1-D115 or LC1-F115
75	120	150	NSX160	MicroLogic 2.2M / 6.2M	90/150	13Irth	LC1-D150 or LC1-F150
90	145	150	NSX160	MicroLogic 2.2M / 6.2M	90/150	13Irth	LC1-D150 or LC1-F150
110	177	185	NSX250	MicroLogic 2.2M / 6.2M	131/220	13Irth	LC1-F225
132	209	265	NSX400	MicroLogic 2.3M / 6.3M	160/320	13Irth	LC1-F265
160	255	265	NSX400	MicroLogic 2.3M / 6.3M	160/320	13Irth	LC1-F265
200	318	320	NSX400	MicroLogic 2.3M / 6.3M	160/320	13Irth	LC1-F330
220	343	400	NSX630	MicroLogic 2.3M / 6.3M	250/500	13Irth	LC1-F400 (70kA)
		500					LC1-F500 (130kA)
250	390	400	NSX630	MicroLogic 2.3M / 6.3M	250/500	13Irth	LC1-F500
300	466	500	NSX630	MicroLogic 2.3M / 6.3M	250/500	13Irth	LC1-F500
315	490	630	NS800L	MicroLogic 5.0	320/800	8000	LC1-F630
355	554	630	NS800L	MicroLogic 5.0	320/800	8000	LC1-F630
375	587	630	NS800L	MicroLogic 5.0	320/800	8000	LC1-F630
400	627	720	NS800L	MicroLogic 5.0	320/800	9600	LC1-F780 or LC1F1000
450	695	720	NS800L	MicroLogic 5.0	320/800	9600	LC1-F780 or LC1F1000
500	772	800	NS1000L	MicroLogic 5.0	400/1000	10000	LC1-F1000
560	863	900	NS1000L	MicroLogic 5.0	400/1000	10000	LC1-F1000

[1] For class 30 the contacteur rating shall be checked according to 30s thermal withstand (F range).
[2] For 480V Consult us.
[3] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[4] Ii for MicroLogic 5.0 control unit.
[5] GV4PE only, for GV4 "S" performance with rotary handle, order GV4PE "S" & rotary handle separately.

Type 2 coordination (IEC 60947-4-1)

Ue: 440 V AC



Magnetic circuit breaker (MA)

Contactor

Thermal relay on CT

Circuit breakers, contactors and thermal relays

Performance "Iq" (kA): Ue = 440V [1]						
Circuit breakers	**B**	**F**	**N**	**H**	**S**	**L**
GV4 L & LE 02 - 12	-	-	50	-	70 [4]	-
GV4 L & LE 25 - 115	20	-	50	-	70 [4]	-
NSX400/630-MicroLogic 1.3M	-	30	42	65	90	130
NS630bL/NS800L/NS1000L MicroLogic 5.0	-	-	-	-	-	130

Starting [1]: normal LRD class 10 A, LR9 class 10.

Motors Rated power	**Guide values of operational current in amps at :**		**Circuit breakers**			**Contactors** [2]	**Thermal o/l relays Adj. class 10A to 30**	
P(kW)	**440V (A)**	**Ie max**	**Type**	**rat(A)**	**Irm(A)** [4]	**Type**	**Type**	**Irth** [1]
0.18	0.55	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0.4/8
0.25	0.77	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0.4/8
0.37	1	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0.4/8
0.55	1.36	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0.4/8
0.75	1.7	2	GV4L or GV4LE	2	26	LC1-D32	LTM R08	0.4/8
1.1	2.4	3.5	GV4L or GV4LE	3.5	46	LC1-D40A	LTM R08	0.4/8
1.5	3.3	3.5	GV4L or GV4LE	3.5	46	LC1-D40A	LTM R08	0.4/8
2.2	4.5	7	GV4L or GV4LE	7	91	LC1-D40A	LTM R08	0.4/8
3	5.9	7	GV4L or GV4LE	7	91	LC1-D40A	LTM R08	0.4/8
4	7.7	10	GV4L or GV4LE	12.5	138	LC1-D65A	LTM R27	1.35/27
		12.5	NSX100-MA	12.5	163	LC1-D80	LTM R27	1.35/27
5.5	10.5	12.5	GV4L or GV4LE	12.5	163	LC1-D65A	LTM R27	1.35/27
			NSX100-MA	12.5	163	LC1-D80	LTM R27	1.35/27
7.5	14	25	GV4L or GV4LE	25	325	LC1-D65A	LTM R27	1.35/27
			NSX100-MA	25	325	LC1-D80	LTM R27	1.35/27
10	18.2	25	GV4L or GV4LE	25	325	LC1-D65A	LTM R27	1.35/27
			NSX100-MA	25	325	LC1-D80	LTM R27	1.35/27
11	20	25	GV4L or GV4LE	25	325	LC1-D65A	LTM R27	1.35/27
			NSX100-MA	25	325	LC1-D80	LTM R27	1.35/27
15	26	32	GV4L or GV4LE	50	550	LC1-D65A	LTM R100	5/100
		32	NSX100-MA	50	550	LC1-D80	LTM R100	5/100
18.5	32	40	GV4L or GV4LE	50	550	LC1-D65A	LTM R100	5/100
		50	NSX100-MA	50	550	LC1-D80	LTM R100	5/100
22	38	50	GV4L or GV4LE	50	650	LC1-D65A	LTM R100	5/100
			NSX100-MA	50	550	LC1-D80	LTM R100	5/100
30	50	65	GV4L or GV4LE	80	880	LC1-D65A	LTM R100	5/100
		80	NSX100-MA	100	1100	LC1-D80	LTM R100	5/100
37	60	65	GV4L or GV4LE	80	880	LC1-D65A	LTM R100	5/100
		80	NSX100-MA	100	1100	LC1-D80	LTM R100	5/100
45	73	80	GV4L or GV4LE	80	1040	LC1-D80	LTM R100	5/100
			NSX100-MA	100	1100	LC1-D80	LTM R100	5/100
55	88	100	GV4L or GV4LE	115	1380	LC1-D115	LTM R100	5/100
						LC1-F115	LTM R100	5/100
			NSX100-MA	100	1300	LC1-D115 or F115	LTM R100	5/100
75	120	150	NSX160-MA	150	1950	LC1-D150 or F150	LTM R08	on CT
90	145	150	NSX160-MA	150	1950	LC1-D150 or F150	LTM R08	on CT
110	177	185	NSX250-MA	220	2420	LC1-F185	LTM R08	on CT
132	209	265	NSX400-MicroLogic 1.3M	320	3500	LC1-F265		
160	255	265	NSX400-MicroLogic 1.3M	320	3500	LC1-F265	LTM R08	on CT
200	318	320	NSX400-MicroLogic 1.3M	320	4000	LC1-F330	LTM R08	on CT
220	343	400	NSX630-MicroLogic 1.3M	500	5500	LC1-F400 (70kA)	LTM R08	on CT
		500	NSX630-MicroLogic 1.3M	500	6500	LC1-F500 (130kA)	LTM R08	on CT
250	390	500	NSX630-MicroLogic 1.3M	500	6500	LC1-F500	LTM R08	on CT
300	466	500	NSX630-MicroLogic 1.3M	500	6500	LC1-F500	LTM R08	on CT
315	490	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LTM R08	on CT
355	554	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LTM R08	on CT
375	587	630	NS800L - MicroLogic 5.0 - LR off	800	8000	LC1-F630	LTM R08	on CT
400	627	720	NS800L - MicroLogic 5.0 - LR off	800	9600	LC1-F780 or LC1-F1000	LTM R08	on CT
450	695	720	NS800L - MicroLogic 5.0 - LR off	800	9600	LC1-F780 or LC1-F1000	LTM R08	on CT
500	772	800	NS1000L -MicroLogic 5.0 - LR off	1000	10000	LC1-F1000	LTM R08	on CT
560	863	900	NS1000L -MicroLogic 5.0 - LR off	1000	10000	LC1-F1000	LTM R08	on CT

[1] For 480V Consult us.
[2] For installations with a class 30 relay, a derating of 20% must be apply on Circuit breakers and the contacteur rating shall be checked according to 30s thermal withstand (F range).
[3] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[4] GV4LE only, for GV4 "S" performance with rotary handle, order GV4LE "S" & rotary handle separately.

Type 2 coordination (IEC 60947-4-1)

Ue: 690 V AC

Circuit breakers, contactors and thermal relays

Performance "Iq" (kA) : Ue = 690 V	
Circuit breaker	**iq**
GV2 < L06 or GV2 ⩾ L07 + LA9 LB920	50 kA
GV2 < P06 or GV2 ⩾ P07 + LA9 LB920	50 kA

Starting [1]: normal LRD class 10 A.

B

GV2L

Motors			Circuit breaker			Contactors [3]	Thermal o/l relays	
P (kW)	I (A) 690 V	Ie max	Type	Rating (A)	Irm (A)	Type	Type	Irth [1]
0.37	0.64	0.64	GV2-L04	0.63	8	LC1-D09	LRD05	0.63...1
0.55	0.87	1	GV2-L05	1	13	LC1-D09	LRD05	0.63...1
0.75	1.1	1.6	GV2-L06	1.6	21	LC1-D09	LRD06	1...1.6
1.1	1.6	2.5	LA9LB920 [2] + GV2-L07	2.5	33	LC1-D25	LRD07	1.6...2.5
1.5	2.1	2.5	LA9LB920 [2] + GV2-L07	2.5	33	LC1-D25	LRD07	1.6...2.5
2.2	2.8	4	LA9LB920 [2] + GV2-L08	4	52	LC1-D25	LRD08	2.5...4
3	3.8	4	LA9LB920 [2] + GV2-L08	4	52	LC1-D25	LRD08	2.5...4
4	4.9	6	LA9LB920 [2] + GV2-L10	6.3	82	LC1-D25	LRD10	4...6
5.5	6.7	8	LA9LB920 [2] + GV2-L14	10	130	LC1-D25	LRD12	5.5...8
7.5	8.9	10	LA9LB920 [2] + GV2-L14	10	130	LC1-D25	LRD14	7...10
10	11.5	13	LA9LB920 [2] + GV2-L16	14	182	LC1-D25	LRD16	9...13
15	17	18	LA9LB920 [2] + GV2-L20	18	234	LC1-D32	LRD21	12...18
18.5	21	21	LA9LB920 [2] + GV2-L22	25	325	LC1-D40A	LRD325	16...24
22	24	32	LA9LB920 [2] + GV2-L32	32	416	LC1-D40A	LRD332	23...32

GV2P

Motors			Circuit breaker			Contactors [3]
P (kW)	I (A) 690 V	Ie max	Type	Irth (A)	Irm (A)	Type
0.37	0.63	0.63	GV2-P04	0.63		LC1-D09
0.55	0.87	1	GV2-P05	1		LC1-D09
0.75	1.1	1.6	GV2-P06	1.6		LC1-D09
1.1	1.6	2.5	LA9LB920 [2] + GV2-P07	2.5		LC1-D25
1.5	2.1	2.5	LA9LB920 [2] + GV2-P07	2.5		LC1-D25
2.2	2.8	4	LA9LB920 [2] + GV2-P08	4		LC1-D25
3	3.8	4	LA9LB920 [2] + GV2-P08	4		LC1-D25
4	4.9	6.3	LA9LB920 [2] + GV2-P10	6.3		LC1-D25
5.5	6.7	10	LA9LB920 [2] + GV2-P14	10		LC1-D25
7.5	8.9	10	LA9LB920 [2] + GV2-P14	10		LC1-D25
10	12	14	LA9LB920 [2] + GV2-P16	14		LC1-D25
11	12.8	14	LA9LB920 [2] + GV2-P16	14		LC1-D32
15	17	18	LA9LB920 [2] + GV2-P20	18		LC1-D32
18.5	21	23	LA9LB920 [2] + GV2-P21	23		LC1-D32
22	24	32	LA9LB920 [2] + GV2-P32	32		LC1-D40A

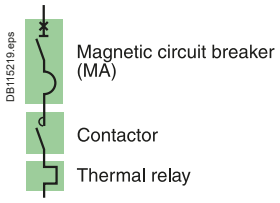
Starting: adjustable

Motors			Circuit breaker			Contactors [3]	Thermal o/l relays	
P (kW)	I (A) 690 V	Ie max	Type	Rating (A)	Irm (A)	Type	Type	Irth [1]
0.37	0.64	0.64	GV2-L04	0.63	8	LC1-D09	LTM R08	0.4/8
0.55	0.87	1	GV2-L05	1	13	LC1-D09	LTM R08	0.4/8
0.75	1.1	1.6	GV2-L06	1.6	21	LC1-D09	LTM R08	0.4/8
1.1	1.6	2.5	LA9LB920 [2] + GV2-L07	2.5	33	LC1-D25	LTM R08	0.4/8
1.5	2.1	2.5	LA9LB920 [2] + GV2-L07	2.5	33	LC1-D25	LTM R08	0.4/8
2.2	2.8	4	LA9LB920 [2] + GV2-L08	4	52	LC1-D25	LTM R08	0.4/8
3	3.8	4	LA9LB920 [2] + GV2-L08	4	52	LC1-D25	LTM R08	0.4/8
4	4.9	6	LA9LB920 [2] + GV2-L10	6.3	82	LC1-D25	LTM R08	0.4/8
5.5	6.7	8	LA9LB920 [2] + GV2-L14	10	130	LC1-D25	LTM R08	0.4/8
7.5	8.9	10	LA9LB920 [2] + GV2-L14	10	130	LC1-D25	LTM R27	1.35/27
11	12.8	14	LA9LB920 [2] + GV2-L16	14	182	LC1-D25	LTM R27	1.35/27
15	17	18	LA9LB920 [2] + GV2-L20	18	234	LC1-D32	LTM R27	1.35/27
18.5	21	21	LA9LB920 [2] + GV2-L22	25	325	LC1-D40A	LTM R27	1.35/27
22	24	27	LA9LB920 [2] + GV2-L32	32	416	LC1-D40A	LTM R27	1.35/27

[1] For long starting (class 20), see the correspondence table for thermal relay.
[2] One LA9LB920 limitor (on the supply side of the breaker) can be used for several starter up to 32 A.
Connections between limitor and GV2 breaker shall be done in such a way to minimizae the risk of short circuit.
[3] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.

Type 2 coordination (IEC 60947-4-1)

Ue: 690 V AC



Circuit breakers, contactors and thermal relays

Performance "Iq" (kA) : Ue = 690 V	
Circuit breaker	**iq**
LUALB1	70 kA
LA9LB920	35 kA

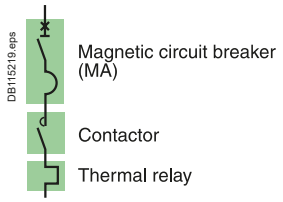
Starting : adjustable.

Motors			TeSys U		Limitor	Control unit	
P (kW)	**I (A)**	**Ie max**	**Type** [2]	**Im**		**Type** [1]	**Irth**
0.37	0.64	0.64	LUB12	14.2 In	LUALB1	LUC●01	0.35...1.4
			LUB12	14.2 In	LA9LB920	LUC●01	0.35...1.4
0.55	0.87	1	LUB12	14.2 In	LUALB1	LUC●01	0.35...1.4
			LUB12	14.2 In	LA9LB920	LUC●01	0.35...1.4
0.75	1.1	1.6	LUB12	14.2 In	LUALB1	LUC●01	0.35...1.4
			LUB12	14.2 In	LA9LB920	LUC●01	0.35...1.4
1.1	1.6	2.5	LUB12	14.2 In	LUALB1	LUC●05	1.25...5
			LUB12	14.2 In	LA9LB920	LUC●05	1.25...5
1.5	2.1	2.5	LUB12	14.2 In	LUALB1	LUC●05	1.25...5
			LUB12	14.2 In	LA9LB920	LUC●05	1.25...5
2.2	2.8	4	LUB12	14.2 In	LUALB1	LUC●05	1.25...5
			LUB12	14.2 In	LA9LB920	LUC●05	1.25...5
3	3.8	4	LUB12	14.2 In	LUALB1	LUC●05	1.25...5
			LUB12	14.2 In	LUALB1	LUC●05	1.25...5
4	4.9	6	LUB12	14.2 In	LUALB1	LUC●12	3...12
			LUB12	14.2 In	LA9LB920	LUC●12	3...12
5.5	6.7	8	LUB12	14.2 In	LUALB1	LUC●12	3...12
			LUB12	14.2 In	LA9LB920	LUC●12	3...12
7.5	8.9	10	LUB12	14.2 In	LUALB1	LUC●12	3...12
			LUB12	14.2 In	LA9LB920	LUC●12	3...12
11	12.8	18	LUB32	14.2 In	LUALB1	LUC●18	4.5...18
			LUB32	14.2 In	LA9LB920	LUC●18	4.5...18
15	17	18	LUB32	14.2 In	LUALB1	LUC●18	4.5...18
			LUB32	14.2 In	LA9LB920	LUC●18	4.5...18
18.5	21	25	LUB32	14.2 In	LUALB1	LUC●32	8...32
			LUB32	14.2 In	LA9LB920	LUC●32	8...32

[1] to be replaced by A, B, D or CM according to protection and monitoring needs.
[2] For Reversing replace LUB12 by LU2B12 and LUB32 by LU2B32.

Type 2 coordination (IEC 60947-4-1)

Ue: 690 V AC



Circuit breakers, contactors and thermal relays

Performance "Iq" (kA) : Ue = 690 V			
Circuit breakers	**HB1**	**HB2**	**LB**
NSX100/250 MA	75 kA	100 kA	-
NSX400/630 MicroLogic 1.3M	75 kA	100 kA	-
NS800 MicroLogic 5.0x	-	-	75 kA

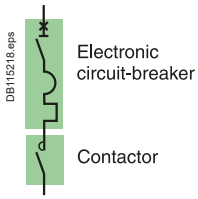
Starting [1]: normal LRD class 10 A, LR9 class 10.

Motors Rated power	**Guide values of operational current in amps at :**		**Circuit breakers**			**Contactors** [2]	**Thermal o/l relays** [1]	
P(kW)	**690V (A)**	**Ie max**	**Type**	**rat(A)**	**Irm(A)** [3]	**Type**	**Type**	**Irth**
0.37	0.64	1	NSX100-MA	12.5	75	LC1-D80	CT 1A + LRD05	0.63..1
0.55	0.87	1	NSX100-MA	12.5	75	LC1-D80	CT 1A + LRD05	0.63..1
0.75	1.1	1.5	NSX100-MA	12.5	75	LC1-D80	CT 1.5A + LRD05	0.95..1.5
1.1	1.6	2.5	NSX100-MA	12.5	75	LC1-D80	CT 2A + LRD05	1.26..2
1.5	2.1	2.5	NSX100-MA	12.5	75	LC1-D80	CT 2.5A + LRD05	1.6..2.5
2.2	2.8	4	NSX100-MA	12.5	75	LC1-D80	CT 4A + LRD05	2.5..4
3	3.8	4	NSX100-MA	12.5	75	LC1-D80	CT 4A + LRD05	2.5..4
4	4.9	6	NSX100-MA	12.5	112	LC1-D80	CT 6A + LRD05	3.8..6
5.5	6.7	7.5	NSX100-MA	12.5	112	LC1-D80	CT 7.5A + LRD05	4.7..7.5
7.5	8.9	12.5	NSX100-MA	12.5	162	LC1-D80	CT 10A + LRD05	6.3..10
10	11.5	12.5	NSX100-MA	12.5	162	LC1-D80	CT 12.5A + LRD05	7.8..12.5
11	12.8	20	NSX100-MA	25	162	LC1-D80	CT 20A + LRD05	12.6..20
15	17	20	NSX100-MA	25	300	LC1-D80	CT 20A + LRD05	12.6..20
18.5	21	25	NSX100-MA	25	325	LC1-D80	CT 24A + LRD05	15.24
22	24	25	NSX100-MA	25	325	LC1-D80	CT 30A + LRD05	19..30
30	32	40	NSX100-MA	50	550	LC1-D150	CT 40A + LRD05	25..40
37	39	50	NSX100-MA	50	650	LC1-D150	CT 50A + LRD05	31.5..50
45	47	50	NSX100-MA	50	650	LC1-D150	CT 50A + LRD05	31.5..50
55	57	63	NSX100-MA	100	900	LC1-D150	LR9-F53 63 or CT 50A + LRD05	48..80
						LC1-F115	LR9-F53 63 or CT 50A + LRD05	48..80
75	77	80	NSX100-MA	100	1100	LC1-D150	LR9-F53 63 or CT 100A + LRD05	48..80
						LC1-F115	LR9-F53 63 or CT 100A + LRD05	48..80
90	93	100	NSX250-MA	150	1350	LC1-F150	LR9-F53 67 or CT 100A + LRD05	60..100
110	113	115	NSX250-MA	150	1500	LC1-F185	LR9-F53 69 or CT 125A + LRD 05	90..150
132	134	150	NSX250-MA	150	1950	LC1-F330	LR9-F53 71 or CT 160A + LRD05	132..220
160	162	220	NSX250-MA	220	2860	LC1-F330	LR9-F53 71 or CT 200A + LRD05	132..220
200	203	220	NSX250-MA	220	2860	LC1-F330	LR9-F53 71 or CT 250A + LRD05	132..220
220	220	225	NSX400-MicroLogic 1.3M	320	3200	LC1-F400 45kA	LR9-F73 75 or CT 320A + LRD05	200..330
						LC1-F500 100kA	LR9-F73 75 or CT 320A + LRD05	200..330
250	250	280	NSX400-MicroLogic 1.3M	320	3840	LC1-F400 45kA	LR9-F73 75 or CT 320A + LRD05	200..330
						LC1-F500 100kA	LR9-F73 75 or CT 320A + LRD05	200..330
315	313	330	NSX630-MicroLogic 1.3M	500	4500	LC1-F500	LR9-F73 75 or CT 320A + LRD05	200..330
335	335	340	NSX630-MicroLogic 1.3M	500	4500	LC1-F500	LR9-F73 79 or CT 400A+LRD05	300..500
355	354	460	NSX630-MicroLogic 1.3M	500	6000	LC1-F630	LR9-F73 79 or CT 400A+LRD05	300..500
375	374	460	NSX630-MicroLogic 1.3M	500	6000	LC1-F630	LR9-F73 79 or CT 400A+LRD05	300..500
400	400	460	NSX630-MicroLogic 1.3M	500	6000	LC1-F630	LR9-F73 81 or CT 500A+LRD05	380..630
450	455	460	NSX630-MicroLogic 1.3M	500	6000	LC1-F630	LR9-F73 81 or CT 500A+LRD05	380..630
475	475	480	NS800LB - MicroLogic 5.0 LR Off	800	6400	LC1-F780	LR9-F73 81 or CT 500A+LRD05	380..630

[1] CT: Current transformer for motor thermal relay, for instance S11 range from RS ISOLSEC.
[2] Reversers : replace LC1 with LC2 ; start-delta starter : replace LC1 with LC3.
[3] Ii for MicroLogic 5.0 control unit.

Type 2 coordination (IEC 60947-4-1)

Ue: 690 V AC



Circuit breakers, contactors

Performance "Iq" (kA) : Ue = 690 V			
Circuit breakers	**HB1**	**HB2**	**LB**
NSX100/160/250 MicroLogic 2.2 M/6.2 M	75 kA	100 kA	-
NSX400/630 MicroLogic 2.2 M/6.2 M	75 kA	100 kA	-
NS800 MicroLogic 5.0x	-	-	75 kA

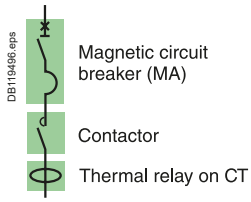
Starting	Standard IEC 60947-4-1		
MicroLogic	2.2 M/2.3 M	6.2 M/6.3 M	5.0
Normal (class)	5. 10	5. 10	10
Long (class)	20	20. 30	20

Motors			Circuit breakers				Contactors [1]
P (kW)	**I (A) 690 V**	**Ie max**	**Type**	**Trip unit**	**Irth (A)**	**Irm (A) [2]**	**Type**
10	11.6	25	NSX100	MicroLogic 2.2 M or 6.2 M	12/25	13 Irth	LC1 D80
11	12.8	25	NSX100	MicroLogic 2.2 M or 6.2 M	12/25	13 Irth	LC1 D80
15	17	25	NSX100	MicroLogic 2.2 M or 6.2 M	12/25	13 Irth	LC1 D80
18.5	22	25	NSX100	MicroLogic 2.2 M or 6.2 M	12/25	13 Irth	LC1 D80
22	24	25	NSX100	MicroLogic 2.2 M or 6.2 M	12/25	13 Irth	LC1 D80
30	32	50	NSX100	MicroLogic 2.2 M or 6.2 M	25/50	13 Irth	LC1 D150 / F115
37	39	50	NSX100	MicroLogic 2.2 M or 6.2 M	25/50	13 Irth	LC1 D150 / F115
45	47	50	NSX100	MicroLogic 2.2 M or 6.2 M	25/50	13 Irth	LC1 D150 / F115
55	57	63	NSX100	MicroLogic 2.2 M or 6.2 M	50/100	13 Irth	LC1 D150 / F115
75	77	80	NSX100	MicroLogic 2.2 M or 6.2 M	50/100	13 Irth	LC1 D150 / F115
90	93	100	NSX250	MicroLogic 2.2 M or 6.2 M	70/150	13 Irth	LC1 F150
110	113	125	NSX250	MicroLogic 2.2 M or 6.2 M	70/150	13 Irth	LC1 F185
132	134	150	NSX250	MicroLogic 2.2 M or 6.2 M	70/150	13 Irth	LC1 F330
160	162	220	NSX250	MicroLogic 2.2 M or 6.2 M	100/220	13 Irth	LC1 F330
200	203	220	NSX250	MicroLogic 2.3 M or 6.3 M	100/220	13 Irth	LC1 F330
220	223	280	NSX400	MicroLogic 2.3 M or 6.3 M	160/320	13 Irth	LC1 F400 (45 kA)
							LC1 F500 (100 kA)
250	250	280	NSX400	MicroLogic 2.3 M or 6.3 M	160/320	13 Irth	LC1 F400 (45 kA)
							LC1 F500 (100 kA)
315	313	340	NSX630	MicroLogic 2.3 M or 6.3 M	250/500	13 Irth	LC1 F500
335	335	340	NSX630	MicroLogic 2.3 M or 6.3 M	250/500	13 Irth	LC1 F500
355	354	460	NSX630	MicroLogic 2.3 M or 6.3 M	250/500	13 Irth	LC1 F630
375	374	460	NSX630	MicroLogic 2.3 M or 6.3 M	250/500	13 Irth	LC1 F630
400	400	460	NSX630	MicroLogic 2.3 M or 6.3 M	250/500	13 Irth	LC1 F630
450	455	460	NSX630	MicroLogic 2.3 M or 6.3 M	250/500	13 Irth	LC1 F630
475	475	480	NS800LB	MicroLogic 5.0	320/800	13 Irth	LC1 F780

[1] Reversers: replace LC1 with LC2; start-delta starter: replace LC1 with LC3.
[2] Ii for MicroLogic 5.0 control unit.

Type 2 coordination (IEC 60947-4-1)

Ue: 690 V AC



Circuit breakers, contactors

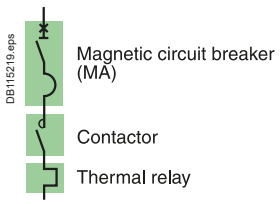
Performance "Iq" (kA): Ue = 690 V			
Circuit breakers	**HB1**	**HB2**	**LB**
NSX100/250 MA	75 kA	100 kA	-
NSX400/630 MicroLogic 1.3 M	75 kA	100 kA	-
NS800 MicroLogic 5.0x	-	-	75 kA

Starting: adjustable.

Motors			Circuit breakers			Contactors [2]	Thermal o/l relays	
P (kW)	**I (A) 690 V**	**Ie max**	**Type**	**Rating (A)**	**Irm (A)**	**Type**	**Type**	**Irth [1]**
0.37	0.64	8	NSX100-MA	12.5	75	LC1-D80	LTM R08	0.4/8
0.55	0.87	8	NSX100-MA	12.5	75	LC1-D80	LTM R08	0.4/8
0.75	1.1	8	NSX100-MA	12.5	75	LC1-D80	LTM R08	0.4/8
1.1	1.6	8	NSX100-MA	12.5	75	LC1-D80	LTM R08	0.4/8
1.5	2.1	8	NSX100-MA	12.5	75	LC1-D80	LTM R08	0.4/8
2.2	2.8	8	NSX100-MA	12.5	75	LC1-D80	LTM R08	0.4/8
3	3.8	8	NSX100-MA	12.5	75	LC1-D80	LTM R08	0.4/8
4	4.9	8	NSX100-MA	12.5	112	LC1-D80	LTM R08	0.4/8
5.5	6.7	8	NSX100-MA	12.5	112	LC1-D80	LTM R08	0.4/8
7.5	8.9	12.5	NSX100-MA	12.5	162	LC1-D80	LTM R27	1.35/27
11	12.8	25	NSX100-MA	25	325	LC1-D80	LTM R27	1.35/27
15	17	25	NSX100-MA	25	325	LC1-D80	LTM R27	1.35/27
18.5	21	25	NSX100-MA	25	325	LC1-D80	LTM R27	1.35/27
22	24	25	NSX100-MA	25	400	LC1-D80	LTM R27	1.35/27
30	32	50	NSX100-MA	50	650	LC1-D150/F115	LTM R100	5/100
37	39	50	NSX100-MA	50	650	LC1-D150/F115	LTM R100	5/100
45	47	50	NSX100-MA	50	650	LC1-D150/F115	LTM R100	5/100
55	57	63	NSX100-MA	100	1100	LC1-D150/F115	LTM R100	5/100
75	77	80	NSX100-MA	100	1100	LC1-D150/F115	LTM R100	5/100
90	93	100	NSX250-MA	150	1350	LC1-F150	LTM R100	5/100
110	113	115	NSX250-MA	150	1500	LC1-F185	LTM R08	on TC
132	134	150	NSX250-MA	150	1950	LC1-F330	LTM R08	on TC
160	162	220	NSX250-MA	220	2420	LC1-F330	LTM R08	on TC
200	203	220	NSX250-MA	220	2420	LC1-F330	LTM R08	on TC
220	223	225	NSX400-MicroLogic 1.3M	320	3200	LC1-F400 45 kA	LTM R08	on TC
						LC1-F500 100 kA		
250	250	280	NSX400-MicroLogic 1.3M	320	3840	LC1-F400 45 kA	LTM R08	on TC
						LC1-F500 100 kA		
315	313	340	NSX630-MicroLogic 1.3M	500	4500	LC1-F500	LTM R08	on TC
335	335	340	NSX630-MicroLogic 1.3M	500	4500	LC1-F500	LTM R08	on TC
355	354	460	NSX630-MicroLogic 1.3M	500	6000	LC1-F630	LTM R08	on TC
375	374	460	NSX630-MicroLogic 1.3M	500	6000	LC1-F630	LTM R08	on TC
400	400	460	NSX630-MicroLogic 1.3M	500	6000	LC1-F630	LTM R08	on TC
450	455	460	NSX630-MicroLogic 1.3M	500	6000	LC1-F630	LTM R08	on TC
475	475	480	NS800LB MicroLogic 5 LR Off		6400	LC1-F780	LTM R08	on TC

[1] Check contactor and circuit breaker thermal withstand for installations with a class 30 relay.
[2] Reversers: replace LC1 with LC2; start-delta starter: replace LC1 with LC3.

Type 1 coordination (IEC 60947-4-1)



GV4L circuit breaker, contactor and Overload relay

Direct-on-line starting

Reverser

"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.

Starting [1]: Direct on line normal start Class 10A/10.

Motors 220/230 V		380 V		415 V		440 V		500-525 V		660-690 V		Circuit breakers		Contactors [3]	Thermal relays [1]	
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	cal (A)	Type	Type	Irth (A)
		0.37	1.2	0.37	1.1	0.37	1	0.55	1.2	0.75	1.2	GV4L or LE	2	LC1-D09	LRD 06	1/1.6
		0.55	1.6	0.55	1.5	0.55	1.4	0.75	1.5	1	1.5	GV4L or LE	2	LC1-D09	LRD 06	1/1.6
0.37	1.8	0.75	2	0.75	1.8	0.75	1.7					GV4L or LE	2	LC1-D09	LRD 07	1.6/2.5
						1.1	2.4	1.1	2	1.5	2	GV4L or LE	3.5	LC1-D09	LRD 07	1.6/2.5
0.55	2.8	1.1	2.8	1.1	2.6			1.5	2.6	2.2	2.8	GV4L or LE	3.5	LC1-D09	LRD 08	2.5/4
		1.5	3.8	1.5	3.5	1.5	3.3			3	3.8	GV4L or LE	7	LC1-D09	LRD 08	2.5/4
1.1	4.4	2.2	5.2	2.2	4.7	2.2	4.5	3	5	4	4.9	GV4L or LE	7	LC1-D09	LRD 10	4/6
1.5	6.1	3	6.6	3	6.5	3	5.8	4	6.5	5.5	6.6	GV4L or LE	7	LC1-D09	LRD 12	5.5/8
2.2	8.7	4	8.5	4	8.2	4	7.9	5.5	9			GV4L or LE	12.5	LC1-D09	LRD 14	7/10
										7.5	8.9	GV4L or LE	12.5	LC1-D12	LRD 14	7/10
3	11.5	5.5	11.5	5.5	11.1	5.5	10.5	7.5	12			GV4L or LE	12.5	LC1-D12	LRD 16	9/13
4	14.5	7.5	16	7.5	15	7.5	14	9	14			GV4L or LE	25	LC1-D18	LRD 21	12/18
				9	17	9	16.9	10	15			GV4L or LE	25	LC1-D18	LRD 21	12/18
										10	11.5	GV4L or LE	25	LC1-D18	LRD 16	9/13
5.5	20	11	23	11	21	11	20	11	18.4			GV4L or LE	25	LC1-D25	LRD 22	16/24
										15	17	GV4L or LE	25	LC1-D25	LRD 21	12/18
										18.5	21.3	GV4L or LE	25	LC1-D32	LRD 22	16/24
7.5	28	15	30	15	28	15	26.5	18.5	28.5			GV4L or LE	50	LC1-D32	LRD 32	23/32
								22	33	30	34.6	GV4L or LE	50	LC1-D40A	LRD 340	30/40
11	39	18.5	37	18.5	35	22	37					GV4L or LE	50	LC1-D40A	LRD 350	37/50
		22	44	22	40			30	45	33	39	GV4L or LE	50	LC1-D50A	LRD 350	37/50
15	52					30	50					GV4L or LE	50	LC1-D65A	LRD 365	48/65
										37	42	GV4L or LE	50	LC1-D65A	LRD 350	37/50
18.5	64	30	58	30	53	37	60	37	55			GV4L or LE	80	LC1-D65A	LRD 365	48/65
				37	64							GV4L or LE	80	LC1-D80	LRD 3361	55/70
										45	47	GV4L or LE	80	LC1-D80	LRD 3361	55/70
22	75	37	69	45	77	45	73	55	80			GV4L or LE	80	LC1-D80	LRD 3363	63/80
		45	80									GV4L or LE	115	LC1-D95	LRD 3365	80/104
										55	57	GV4L or LE	80	LC1-D115	LRD 3361	55/70
										75	77	GV4L or LE	80	LC1-D115	LR9D5367	60/100
30	95	55	97	55	93	55	90	75	106	90	93	GV4L or LE	115	LC1-D115	LR9D5369	90/150

[1] For long starting (class 20), see the correspondence table for thermal relay.
[2] For 480V application consult us.
[3] Reversers : replace LC1 with LC2.

Type 1 coordination (IEC 60947-4-1)

Magnetic circuit breaker (MA)

Contactor

Thermal relay

NSX100 circuit breakers, contactors and thermal relays

Direct-on-line starting

Reverser

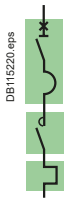
"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.

Starting [1]: normal class 10A/10.

Motors 220/230 V		380 V		415 V		440 V [2]		500-525 V		660-690 V		Circuit breakers		Contactors [3]	Thermal relays [1]	
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	cal (A)	Type	Type	Irth (A)
		0.37	1.2	0.37	1.1	0.37	1	0.55	1.2	0.75	1.2	NSX100B/F/N/H/S/L MA	2.5	LC1-D09	LRD 06	1/1.6
		0.55	1.6	0.55	1.5	0.55	1.4	0.75	1.5	1	1.5	NSX100B/F/N/H/S/L MA	2.5	LC1-D09	LRD 06	1/1.6
0.37	1.8	0.75	2	0.75	1.8	0.75	1.7					NSX100B/F/N/H/S/L MA	2.5	LC1-D09	LRD 07	1.6/2.5
						1.1	2.4	1.1	2	1.5	2	NSX100B/F/N/H/S/L MA	2.5	LC1-D09	LRD 07	1.6/2.5
0.55	2.8	1.1	2.8	1.1	2.5			1.5	2.6	2.2	2.8	NSX100B/F/N/H/S/L MA	6.3	LC1-D09	LRD 08	2.5/4
		1.5	3.7	1.5	3.5	1.5	3.1			3	3.8	NSX100B/F/N/H/S/L MA	6.3	LC1-D09	LRD 08	2.5/4
1.1	4.4	2.2	5	2.2	4.8	2.2	4.5	3	5	4	4.9	NSX100B/F/N/H/S/L MA	6.3	LC1-D09	LRD 10	4/6
1.5	6.1	3	6.6	3	6.5	3	5.8	4	6.5	5.5	6.6	NSX100B/F/N/H/S/L MA	12.5	LC1-D09	LRD 12	5.5/8
2.2	8.7	4	8.5	4	8.2	4	7.9	5.5	9			NSX100B/F/N/H/S/L MA	12.5	LC1-D09	LRD 14	7/10
										7.5	8.9	NSX100B/F/N/H/S/L MA	12.5	LC1-D12	LRD 14	7/10
										7.5	8.9	NSX100HB1/HB2 MA	12.5	LC1-D40A	LRD 14	7/10
3	11.5	5.5	11.5	5.5	11	5.5	10.4	7.5	12			NSX100B/F/N/H/S/L MA	12.5	LC1-D12	LRD 16	9/13
4	14.5	7.5	15.5	7.5	14	7.5	13.7	9	14			NSX100B/F/N/H/S/L MA	25	LC1-D18	LRD 21	12/18
				9	17	9	16.9	10	15			NSX100B/F/N/H/S/L MA	25	LC1-D18	LRD 21	12/18
										10	11.5	NSX100B/F/N/H/S/L MA	25	LC1-D18	LRD 16	9/13
										10	11.5	NSX100HB1/HB2 MA	25	LC1-D40A	LRD313	9/13
5.5	20	11	22	11	21	11	20.1	11	18.4			NSX100B/F/N/H/S/L MA	25	LC1-D25	LRD 22	17/25
										15	17	NSX100B/F/N/H/S/L MA	25	LC1-D25	LRD 21	12/18
										18.5	21.3	NSX100B/F/N/H/S/L MA	25	LC1-D32	LRD 22	17/25
										18.5	21.3	NSX100HB1/HB2 MA	25	LC1-D40A	LRD325	17/25
7.5	28	15	30	15	28	15	26.5	18.5	28.5			NSX100B/F/N/H/S/L MA	50	LC1-D32	LRD 32	23/32
								22	33	30	34.6	NSX100B/F/N/H/S/L MA	50	LC1-D40A	LRD340	30/40
										30	34.6	NSX100HB1/HB2 MA	50	LC1-D80	LRD3355	30/40
11	39	18.5	37	22	40	22	39					NSX100B/F/N/H/S/L MA	50	LC1-D40A	LRD350	37/50
		22	44	25	47			30	45			NSX100B/F/N/H/S/L MA	50	LC1-D50A	LRD350	37/50
										37	42	NSX100B/F/N/H/S/L MA	50	LC1-D65A	LRD350	37/50
										37	42	NSX100HB1/HB2 MA	50	LC1-D80	LRD3357	37/50
15	52	30	59	30	55	30	51.5					NSX100B/F/N/H/S/L MA	100	LC1-D65A	LRD365	48/65
18.5	64					37	64	37	55							
										45	49	NSX100B/F/N/H/S/L/ HB1/HB2 MA	100	LC1-D80	LRD3357	37/50
22	75	37	72	37	72	45	76	55	80			NSX100B/F/N/H/S/L MA	100	LC1-D80	LRD3363	63/80
				45	80											
25	85	45	85									NSX100B/F/N/H/S/L MA	100	LC1-D95	LRD3365	80/104
										55	57	NSX100B/F/N/H/S/L/ HB1/HB2 MA	100	LC1-D115	LRD3361	55/70
30	100			55	100	55	96			75	77	NSX100B/F/N/H/S/L/ HB1/HB2 MA	100	LC1-D115	LR9-D53 67	60/100

[1] For long starting (class 20), see the correspondence table for thermal relay.
[2] For 480V application consult us.
[3] Reversers : replace LC1 with LC2.

Type 1 coordination (IEC 60947-4-1)



NSX160 to NS1250 circuit breaker, contactor and thermal relay

Direct-on-line starting

Reverser

"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.
Starting [1]: normal, class 10.

Motors 220/230 V		380 V		415 V		440 V [2]		500-525 V		660-690 V		Circuit breakers	Contactors [3]		Thermal relays [1]	
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	cal (A)	Type	Type	Irth (A)
37 45	125 150	55 75	105 140	75	135	75	124	75 90	110 130	90	100	NSX160B/F/N/H/S/L MA NSX250HB1/HB2 MA	150	LC1D-150 LC1F-150	LR9-D53 69 LR9-F53 69	90/150 100/160
55	180	90	170	90	160	90 110	156 180	110	156	110	120	NSX 250B/F/N/H/S/L/HB1/HB2 MA	220	LC1F-185	LR9-F53 71	132/220
		110	210	110	200	132	215					NSX 250B/F/N/H/S/L/HB1/HB2 MA	220	LC1F-225	LR9-F53 71	132/220
								132	190	132 160	140 175	NSX 250B/F/N/H/S/L/HB1/HB2 MA	220	LC1F-265	LR9-F53 71	132/220
75	250	132	250	132	230	160	256	160	228			NSX400F/N/H/S/L/HB1/HB2 MicroLogic 1.3M	320	LC1F-265	LR9-F73 75	200/330
90	312	160	300	160	270			200	281	200 220	220 240	NSX400F/N/H/S/L/HB1/HB2 MicroLogic 1.3M	320	LC1F-330	LR9-F73 75	200/330
110	360	200	380	220	380	220	360	220	310			NSX630F/N/H/S/L/HB1/HB2 MicroLogic 1.3M	500	LC1F-400	LR9-F73 79	300/500
										250	270	NSX630F/N/H/S/L/HB1/HB2 MicroLogic 1.3M	500	LC1F-400	LR9-F73 75	200/330
		220	420			250	401			335	335	NSX630F/N/H/S/L/HB1/HB2 MicroLogic 1.3M	500	LC1F-500	LR9-F73 79	300/500
150	480	250	480	250	430			315 335	445 460			NSX630F/N/H/S/L/HB1/HB2 MicroLogic 1.3M	500	LC1F-500	LR9-F73 79	300/500
						300	480			375 450	400 480	NSX630F/N/H/S/L/HB1/HB2 MicroLogic 1.3M	500	LC1-F630	LR9-F73 81	380/630
160	520	300	570	300	510	335	540	355 375 400	500 530 570			NS800N/H MicroLogic 5.0 - LR off NS1000L MicroLogic 5.0 - LR off	800 1000	LC1-F630	LR9-F73 81	380/630
200	630	335	630	335	580	375	590	450	630			NS800N/H MicroLogic 5.0 - LR off NS1000L MicroLogic 5.0 - LR off	800 1000	LC1-F630	LR9-F73 81	380/630
220	700	375	700	375	650	400	650					NS800N/H MicroLogic 5.0 - LR off NS1000L MicroLogic 5.0 - LR off	800 1000	LC1-F800	LR2-F83 83	500/800
		400	750	400	690	450	720					NS800N/H MicroLogic 5.0 - LR off NS1000L MicroLogic 5.0 - LR off	800 1000	LC1-F800 LC1-BL33	LR2-F83 83	500/800
										500 560	530 580	NS800N/H MicroLogic 5.0 - LR off NS1000L MicroLogic 5.0 - LR off	800 1000	LC1-BL33	LR2-F83 83	500/800
250	800	450	800	450	750			500 560	700 760			NS1000N/H MicroLogic 5.0 - LR off	1000	LC1-BM33	LR2-F83 83	500/800
		500	900	500	830	500 560	800 900	600	830			NS1000N/H MicroLogic 5.0 - LR off	1000	LC1-BM33	LR2-F83 85	630/1000
300	970	560 600	1000 1100	560 600	920 1000	600 670	960 1080	670 750	920 1020			NS1250N/H MicroLogic 5.0 - LR off	1250	LC1-BP33	LR2-F83 85	630/1000

[1] For long starting (class 20), see the correspondence table for thermal relay.
[2] For 480V application consult us.
[3] Reversers : replace LC1 with LC2.

Type 1 coordination (IEC 60947-4-1)

GV4P circuit breaker and contactor

Direct-on-line starting

Reverser

"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.

Starting [1]: Direct on line normal start Class 10A/10.

B

Motors 220/230 V		380 V		415 V		440 V		500-525 V		660-690 V		Circuit breakers		Contactors [3]	Thermal relay [1]	
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	cal (A)	Type	Type	Irth (A)
		0.37	1.2	0.37	1.1	0.37	1	0.55	1.2	0.75	1.2	GV4P, PE or PEM	2	LC1-D09		0.8/2
		0.55	1.6	0.55	1.5	0.55	1.4	0.75	1.5	1	1.5	GV4P, PE or PEM	2	LC1-D09		0.8/2
0.37	1.8	0.75	2	0.75	1.8	0.75	1.7					GV4P, PE or PEM	2	LC1-D09		0.8/2
						1.1	2.4	1.1	2	1.5	2	GV4P, PE or PEM	3.5	LC1-D09		1.4/3.5
0.55	2.8	1.1	2.8	1.1	2.6			1.5	2.6	2.2	2.8	GV4P, PE or PEM	3.5	LC1-D09		1.4/3.5
		1.5	3.8	1.5	3.5	1.5	3.3			3	3.8	GV4P, PE or PEM	7	LC1-D09		2.9/7
1.1	4.4	2.2	5.2	2.2	4.7	2.2	4.5	3	5	4	4.9	GV4P, PE or PEM	7	LC1-D09		2.9/7
1.5	6.1	3	6.6	3	6.5	3	5.8	4	6.5	5.5	6.6	GV4P, PE or PEM	7	LC1-D09		2.9/7
2.2	8.7	4	8.5	4	8.2	4	7.9	5.5	9			GV4P, PE or PEM	12.5	LC1-D25		5/12.5
										7.5	8.9	GV4P, PE or PEM	12.5	LC1-D25		5/12.5
3	11.5	5.5	11.5	5.5	11.1	5.5	10.5	7.5	12			GV4P, PE or PEM	12.5	LC1-D25		5/12.5
4	14.5	7.5	16	7.5	15	7.5	14	9	14			GV4P, PE or PEM	25	LC1-D25		10/25
				9	17	9	16.9	10	15			GV4P, PE or PEM	25	LC1-D25		10/25
										10	11.5	GV4P, PE or PEM	25	LC1-D25		10/25
5.5	20	11	23	11	21	11	20	11	18.4			GV4P, PE or PEM	25	LC1-D25		10/25
										15	17	GV4P, PE or PEM	25	LC1-D25		10/25
7.5	28	15	30	15	28	15	26.5	18.5	28.5			GV4P, PE or PEM	50	LC1-D40A		20/50
								22	33	30	34.6	GV4P, PE or PEM	50	LC1-D40A		20/50
11	39	18.5	37	18.5	35	22	37					GV4P, PE or PEM	50	LC1-D40A		20/50
		22	44	22	40			30	45	33	39	GV4P, PE or PEM	50	LC1-D50A		20/50
15	52					30	50					GV4P, PE or PEM	50	LC1-D65A		20/50
										37	42	GV4P, PE or PEM	50	LC1-D65A		20/50
18.5	64	30	58	30	53	37	60	37	55			GV4P, PE or PEM	80	LC1-D65A		40/80
				37	64							GV4P, PE or PEM	80	LC1-D65A		40/80
										45	47	GV4P, PE or PEM	80	LC1-D80		40/80
22	75	37	69	45	77	45	73	55	80			GV4P, PE or PEM	80	LC1-D80		40/80
		45	80									GV4P, PE or PEM	115	LC1-D95		65/115
										55	57	GV4P, PE or PEM	80	LC1-D115		40/80
										75	77	GV4P, PE or PEM	80	LC1-D115		40/80
30	95	55	97	55	93	55	90	75	106	90	93	GV4P, PE or PEM	115	LC1-D115		65/115

[1] For long starting (class 20), see the correspondence table for thermal relay.
[2] For 480V application consult us.
[3] Reversers : replace LC1 with LC2.

Type 1 coordination (IEC 60947-4-1)

NSX100 to NS1250 circuit breakers

Direct-on-line starting

Reverser

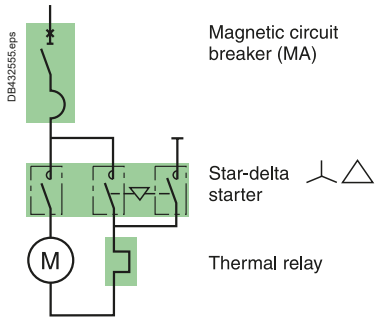
"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.

Starting	Standard IEC 60947-4-1		
MicroLogic	2.2 M/2.3 M	6.2 M/6.3 M	5.0
Normal (class)	5. 10	5. 10	10
Long (class)	20	20. 30 [3]	20

Motors 220/230 V		380 V		415 V		440 V [1]		500-525 V		660-690 V		Circuit breakers	Contactors [2]		
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	Trip unit	Irth (A)	Type
7.5	28	15	30	15	28	15	26.5	18.5	28.5			NSX100B/F/N/H/S/L	MicroLogic 2.2 or 6.2	25/50	LC1-D32
11	39	18.5	37	22	40	22	39	22	33	30	34.6	NSX100B/F/N/H/S/L/HB1/HB2	MicroLogic 2.2 or 6.2	25/50	LC1-D40A
		22	44	25	47			30	45	33	39	NSX100B/F/N/H/S/L/HB1/HB2	MicroLogic 2.2 or 6.2	25/50	LC1-D50A
15	52	30	59	30	55	30	51.5			37	42	NSX100B/F/N/H/S/L	MicroLogic 2.2 or 6.2	48/80	LC1-D65A
										37	42	NSX100HB1/HB2	MicroLogic 2.2 or 6.2	48/80	LC1-D80
18.5	64					37	64	37	55			NSX100B/F/N/H/S/L	MicroLogic 2.2 or 6.2	48/80	LC1-D65A
22	75	37	72	37	72	45	76	55	80	45	49	NSX100B/F/N/H/S/L/HB1/HB2	MicroLogic 2.2 or 6.2	48/80	LC1-D80
25	85	45	85									NSX100B/F/N/H/S/L/HB1/HB2	MicroLogic 2.2 or 6.2	50/100	LC1-D95
										55	60	NSX100B/F/N/H/S/L/HB1/HB2	MicroLogic 2.2 or 6.2	50/100	LC1-D80
30	100			55	100	55	96			75	80	NSX100B/F/N/H/S/L/HB1/HB2	MicroLogic 2.2 or 6.2	50/100	LC1D-115 or LC1F-115
37 45	125 150	55 75	105 140	75	135	75	124	75 90	110 130	90	100	NSX160B/F/N/H/S/L NSX250HB1/HB2	MicroLogic 2.2 or 6.2	70/150	LC1D-150 or LC1F-150
55	180	90	170	90	160	90 110	156 180	110	156	110	120	NSX 250B/F/N/H/S/L/HB1/HB2	MicroLogic 2.2 or 6.2	100/220	LC1F-185
		110	210	110	200	132	215					NSX 250B/F/N/H/S/L/HB1/HB2	MicroLogic 2.2 or 6.2	100/220	LC1F-225
								132	190	132 160	140 175	NSX 250B/F/N/H/S/L/HB1/HB2	MicroLogic 2.2 or 6.2	100/220	LC1F-265
75	250	132	250	132	230	160	256	160	228			NSX400F/N/H/S/L/HB1/HB2	MicroLogic 2.3 or 6.3	160/320	LC1F-265
90	312	160	300	160	270			200	281	200 220	220 240	NSX400F/N/H/S/L/HB1/HB2	MicroLogic 2.3 or 6.3	160/320	LC1F-330
110	360	200	380	220	380	220	360	220	310	250	270	NSX630F/N/H/S/L/HB1/HB2	MicroLogic 2.3 or 6.3	250/500	LC1F-400
		220	420			250	401	315	445	335	335	NSX630F/N/H/S/L/HB1/HB2	MicroLogic 2.3 or 6.3	250/500	LC1F-500
150	480	250	480	250	430			335	460			NSX630F/N/H/S/L/HB1/HB2	MicroLogic 2.3 or 6.3	250/500	LC1F-500
						300	480	355 375	500 530	375 450	400 480	NSX630F/N/H/S/L/HB1/HB2	MicroLogic 2.3 or 6.3	250/500	LC1-F630
160	520	300	570	300	510	335	540	400	570			NS800N/H NS1000L	MicroLogic 5.0	320/800 400/1000	LC1-F630
200	630	335	630	335	580	375	590	450	630			NS800N/H NS1000L	MicroLogic 5.0	320/800 400/1000	LC1-F630
220	700	375	700	375	650	400	650					NS800N/H NS1000L	MicroLogic 5.0	320/800 400/1000	LC1-F800
		400	750	400	690	450	720					NS800N/H NS1000L	MicroLogic 5.0	320/800 400/1000	LC1-F800 LC1-BL33
										500 560	530 580	NS800N/H NS1000L	MicroLogic 5.0	320/800 400/1000	LC1-BL33
250	800	450	800	450	750			500 560	700 760			NS1000N/H	MicroLogic 5.0	400/1000	LC1-BM33
		500	900	500	830	500 560	800 900	600	830			NS1000N/H	MicroLogic 5.0	400/1000	LC1-BM33
300	970	560	1000	560	920	600	960	670	920			NS1250N/H	MicroLogic 5.0	630/1250	LC1-BP33
		600	1100	600	1000	670	1080	750	1020			NS1250N/H	MicroLogic 5.0	630/1250	LC1-BP33

[1] For 480V application consult us.
[2] Reversers : replace LC1 with LC2.
[3] For class 30 the contacteur rating shall be checked according to 30s thermal withstand (F range).

Type 1 coordination (IEC 60947-4-1)



GV4L/LE and NSX100 circuit breaker

Star-delta starting

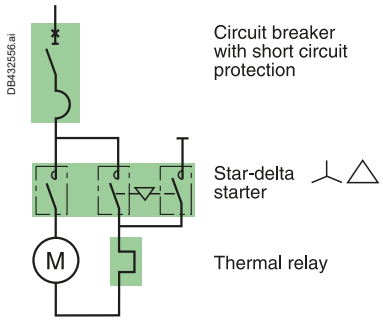
"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.
Starting: normal.

B

Motors 220/230 V		380 V		415 V		440 V [1]		Circuit breakers		Contactors	Thermal relays	
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	cal (A)	Type	Type	Irth (A)
0.55	2.8	1.1	2.8	1.1	2.6	1.5	3.1	GV4L or LE	3.5	LC3-D09	LRD 07	1.6/2.5
		1.5	3.8	1.5	3.5			GV4L or LE	7	LC3-D09	LRD 07	1.6/2.5
1.1	4.4	2.2	5.2	2.2	4.7	2.2	4.5	GV4L or LE	7	LC3-D09	LRD 08	2.5/4
1.5	6.1	3	6.6	3	6.5	3	5.8	GV4L or LE	12.5	LC3-D09	LRD 08	2.5/4
2.2	8.7	4	8.5	4	8.2	4	7.9	GV4L or LE	12.5	LC3-D09	LRD 10	4/6
3	11.5	5.5	11.5	5.5	11.1	5.5	10.4	GV4L or LE	12.5	LC3-D09	LRD 12	5.5/8
4	14.5	7.5	16	7.5	15	7.5	13.7	GV4L or LE	25.0	LC3-D09	LRD 14	7/10
5.5	20			9	17	9	16.9	GV4L or LE	25.0	LC3-D12	LRD 16	9/13
		11	23	11	21	11	20	GV4L or LE	25.0	LC3-D12	LRD 16	9/13
7.5	28	15	30	15	28	15	26.5	GV4L or LE	50.0	LC3-D18	LRD 21	12/18
11	39	18.5	37	22	40	22	37	GV4L or LE	50.0	LC3-D18	LRD 22	17/25
		22	44	25	47			GV4L or LE	50.0	LC3-D32	LRD 32	23/32
15	52					30	50	GV4L or LE	80.0	LC3-D32	LRD 32	23/32
				30	53			GV4L or LE	80.0	LC3-D32	LRD 32	23/32
18.5	64	30	58	37	64	37	60	GV4L or LE	80.0	3xLC1-D40A	LRD 340	30/40
		37	69					GV4L or LE	80.0	3xLC1-D40A	LRD 350	37/50
22	75	45	80	45	77	45	73	GV4L or LE	80.0	2xLC1-D50A + 1 xLC1D40A	LRD 350	37/50
30	95	45	80	55	93	55	90	GV4L or LE	80.0	2xLC1-D65A + 1 xLC1D40A	LRD 365	48/65
30	95	55	97	55	93	55	90	GV4L or LE	115	2xLC1-D65A + 1 xLC1D40A	LRD 365	48/65
0.55	2.8	1.5	3.8	1.5	3.5	1.5	3.1	NSX100B/F/N/H/S/L MA	6.3	LC3-D09	LRD 07	1.6/2.5
1.1	4.4	2.2	5.2	2.2	4.7	2.2	4.5	NSX100B/F/N/H/S/L MA	6.3	LC3-D09	LRD 08	2.5/4
1.5	6.1	3	6.6	3	6.5	3	5.8	NSX100B/F/N/H/S/L MA	12.5	LC3-D09	LRD 08	2.5/4
2.2	8.7	4	8.5	4	8.2	4	7.9	NSX100B/F/N/H/S/L MA	12.5	LC3-D09	LRD 10	4/6
3	11.5	5.5	11.5	5.5	11.1	5.5	10.4	NSX100B/F/N/H/S/L MA	12.5	LC3-D09	LRD 12	5.5/8
4	14.5	7.5	16	7.5	15	7.5	13.7	NSX100B/F/N/H/S/L MA	25	LC3-D09	LRD 14	7/10
5.5	20			9	17	9	16.9	NSX100B/F/N/H/S/L MA	25	LC3-D12	LRD 16	9/13
		11	23	11	21	11	20	NSX100B/F/N/H/S/L MA	25	LC3-D12	LRD 16	9/13
7.5	28	15	30	15	28	15	26.5	NSX100B/F/N/H/S/L MA	50	LC3-D18	LRD 21	12/18
11	39	18.5	37	22	40	22	37	NSX100B/F/N/H/S/L MA	50	LC3-D18	LRD 22	17/25
		22	44	25	47			NSX100B/F/N/H/S/L MA	100	LC3-D32	LRD 32	23/32
15	52					30	50	NSX100B/F/N/H/S/L MA	100	LC3-D32	LRD 32	23/32
				30	53			NSX100B/F/N/H/S/L MA	100	LC3-D32	LRD 32	23/32
18.5	64	30	58	37	64	37	60	NSX100B/F/N/H/S/L MA	100	3xLC1-D40A	LRD 340	30/40
		37	69					NSX100B/F/N/H/S/L MA	100	3xLC1-D40A	LRD 350	37/50
22	75	45	80	45	77	45	73	NSX100B/F/N/H/S/L MA	100	2xLC1-D50A + 1 xLC1D40A	LRD 350	37/50
30	100			55	100	55	96	NSX100B/F/N/H/S/L MA	100	2xLC1-D65A + 1 xLC1D40A	LRD 365	48/65

[1] 480V application : Consult us.

Type 1 coordination (IEC 60947-4-1)



NSX160 to NS1000 circuit breakers

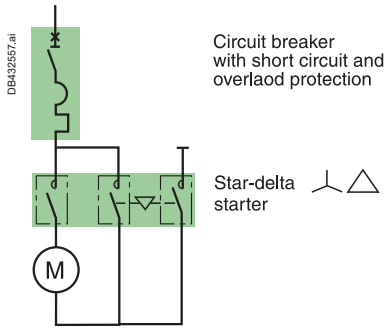
Star-delta starting

"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.
Starting: normal.

Motors 220/230 V		380 V		415 V		440 V [1]		Circuit breakers		Contactors	Thermal relays	
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	cal (A)	Type	Type	Irth (A)
		55	105					NSX160B/F/N/H/S/L MA	150	LC3-D80	LRD 3359	48/65
37	125			75	135	75	124	NSX160B/F/N/H/S/L MA	150	LC3-D80	LRD 3363	63/80
45	150	75	140					NSX160B/F/N/H/S/L MA	150	LC3-D115 LC3-F115	LR9D 5367 LR9F 5367	60/100
		90	170	90	160	90	156	NSX 250B/F/N/H/S/L MA	220	LC3-D115 LC3-F115	LR9D 5367 LR9F 5367	60/100
55	180					110	180	NSX 250B/F/N/H/S/L MA	220	LC3-D115 LC3-F115	LR9D 5369 LR9F 5369	90/150
		110	210	110	200			NSX 250B/F/N/H/S/L MA	220	LC3-D115 LC3-F115	LR9D 5369 LR9F 5369	90/150
						132	215	NSX 250B/F/N/H/S/L MA	220	LC3-D150 LC3-F150	LR9D 5369 LR9F 5369	90/150
75	250	132	250	132	230			NSX400F/N/H/S/L MicroLogic 1.3M	320	LC3-D150 LC3-F150	LR9D 5369 LR9F 5369	90/150
90	312	160	300	160	270	160	256	NSX400F/N/H/S/L MicroLogic 1.3M	320	LC3 F185	LR9F 5371	132/220
110	360	200	380	220	380	220	360	NSX630F/N/H/S/L MicroLogic 1.3M	500	LC3-F265	LR9F 7375	200/330
		220	420			250	401	NSX630F/N/H/S/L MicroLogic 1.3M	500	LC3-F265	LR9F 7375	200/330
150	480	250	480	250	430			NSX630F/N/H/S/L MicroLogic 1.3M	500	LC3-F330	LR9-F73 75	200/330
						300	480	NSX630F/N/H/S/L MicroLogic 1.3M	500	LC3-F330	LR9F 7375	200/330
160	520	300	570	300	510	335	540	NS800N/H MicroLogic 5.0 - LR off	800	LC3-F400	LR9F 7375	200/330
								NS1000L MicroLogic 5.0 - LR off	1000			
				335	580	375	590	NS800N/H MicroLogic 5.0 - LR off	800	LC3-F400	LR9F 7379	300/500
								NS1000L MicroLogic 5.0 - LR off	1000			

[1] 480V application : Consult us.

Type 1 coordination (IEC 60947-4-1)



GV4P/PE/PEM, NSX100 to NS1000 circuit breakers, contactors

Star-delta starting

"Iq" breaking performance: equal to the breaking capacity of the circuit breaker alone.
Starting: normal.

B

Motors								Circuit breakers			Contactors
220/230 V		380 V		415 V		440 V [1]					
P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	P (kW)	I (A)	Type	Trip unit	Irth (A)	Type
		0.37	1.2	0.37	1.1	0.37	1	GV4P, PE or PEM	2	0.8/2	LC3-D09
		0.55	1.6	0.55	1.5	0.55	1.4	GV4P, PE or PEM	2	0.8/2	LC3-D09
0.37	1.8	0.75	2	0.75	1.8	0.75	1.7	GV4P, PE or PEM	2	0.8/2	LC3-D09
						1.1	2.4	GV4P, PE or PEM	3.5	1.4/3.5	LC3-D09
0.55	2.8	1.1	2.8	1.1	2.6			GV4P, PE or PEM	3.5	1.4/3.5	LC3-D09
		1.5	3.8	1.5	3.5	1.5	3.3	GV4P, PE or PEM	7	2.9/7	LC3-D09
1.1	4.4	2.2	5.2	2.2	4.7	2.2	4.5	GV4P, PE or PEM	7	2.9/7	LC3-D09
1.5	6.1	3	6.6	3	6.5	3	5.8	GV4P, PE or PEM	7	2.9/7	LC3-D09
2.2	8.7	4	8.5	4	8.2	4	7.9	GV4P, PE or PEM	12.5	5/12.5	LC3-D09
3	11.5	5.5	11.5	5.5	11.1	5.5	10.5	GV4P, PE or PEM	12.5	5/12.5	LC3-D09
4	14.5	7.5	16	7.5	15	7.5	14	GV4P, PE or PEM	25	10/25	LC3-D12
				9	17	9	16.9	GV4P, PE or PEM	25	10/25	LC3-D12
5.5	20	11	23	11	21	11	20	GV4P, PE or PEM	25	10/25	LC3-D18
7.5	28	15	30	15	28	15	26.5	GV4P, PE or PEM	50	20/50	LC3-D18
11	39	18.5	37	18.5	35	22	37	GV4P, PE or PEM	50	20/50	LC3-D18
		22	44	22	40			GV4P, PE or PEM	50	20/50	LC3-D18
15	52			30	53	30	50	GV4P, PE or PEM	50	20/50	LC3-D32
18.5	64	30	58	37	64	37	60	GV4P, PE or PEM	80	40/80	3xLC1-D40A
22	75	37	69	45	77	45	73	GV4P, PE or PEM	80	40/80	3xLC1-D40A
		45	80					GV4P, PE or PEM	115	65/115	2xLC1-D50A + 1xLC1D40A
30	95	55	97	55	93	55	90	GV4P, PE or PEM	115	65/115	2xLC1-D50A + 1xLC1D40A
7.5	28	15	30	15	28	15	26.5	NSX100B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	25/50	LC3-D18
11	39	18.5	37	22	40	22	39	NSX100B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	25/50	LC3-D18
		22	44	25	47			NSX100B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	25/50	LC3-D18
15	52			30	55	30	51.5	NSX100B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	50/100	LC3-D32
				30	55			NSX100B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	50/100	LC3-D32
18.5	64	30	59	37	66	37	64	NSX100B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	50/100	3xLC1-D40A
		37	72					NSX100B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	50/100	2xLC1-D50A + 1xLC1D40A
22	75			45	80	45	76	NSX100B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	50/100	2xLC1-D50A + 1xLC1D40A
25	85	45	85					NSX100B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	50/100	2xLC1-D50A + 1xLC1D40A
30	100			55	100	55	96	NSX100B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	50/100	2xLC1-D65A + 1xLC1D40A
		55	105					NSX160B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	70/150	LC3-D80
37	125	75	140	75	135	75	124	NSX160B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	70/150	LC3-D80
45	150	75	140					NSX160B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	70/150	LC3-D115 or LC3-F115
		90	170	90	160	90	156	NSX 250B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	100/220	LC3-D115 or LC3-F115
55	180	110	210	110	200	110	180	NSX 250B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	100/220	LC3-D115 or LC3-F115
						132	215	NSX 250B/F/N/H/S/L	MicroLogic 2.2M or 6.2E-M	100/220	LC3-D150 or LC3-F150
75	250	132	250	132	230			NSX400F/N/H/S/L	MicroLogic 2.3M or 6.3E-M	160/320	LC3-D150 or LC3-F150
90	312	160	300	160	270	160	256	NSX400F/N/H/S/L	MicroLogic 2.3M or 6.3E-M	160/320	LC3F-185
110	360	200	380	220	380	220	360	NSX630F/N/H/S/L	MicroLogic 2.3M or 6.3E-M	250/500	LC3-F265
		220	420			250	401	NSX630F/N/H/S/L	MicroLogic 2.3M or 6.3E-M	250/500	LC3-F265
150	480	250	480	250	430			NSX630F/N/H/S/L	MicroLogic 2.3M or 6.3E-M	250/500	LC3-F330
						300	480	NSX630F/N/H/S/L	MicroLogic 2.3M or 6.3E-M	250/500	LC3-F330
160	520	300	570	300	510	335	540	NS800N/H NS1000L	MicroLogic 5.0	320/800 400/1000	LC3-F400
				335	580	375	590	NS800N/H NS1000L	MicroLogic 5.0	320/800 400/1000	LC3-F400

[1] 480V application : Consult us.

Type 1 coordination (IEC 60947-4-1) for AC1 Utilisation category: non-inductive or slightly inductive loads

Ue ⩽ 440 V AC

"Iq" performance: equal to the breaking capacity of the circuit breaker alone.

Ie max [1]	Circuit breakers	Iq 440V (kA)				Contactor
40°	Type	According to circuit breaker breaking capacity	Trip unit	Rating (A)	Ir (A)	
40	ComPact NSX100 B/F/N	25/35/50	MicroLogic 2.2 / 5.2	40	18..40	LC1D40A
80	ComPact NSX100 B/F/N	25/35/50	MicroLogic 2.2 / 5.2	100	40..100	LC1D50A or 65A
100	ComPact NSX100 B/F/N	25/35/50	MicroLogic 2.2 / 5.2	100	40..100	LC1D80
160	ComPact NSX160 B/F/N	25/35/50	MicroLogic 2.2 / 5.2	160	63..160	LC1D80
						LC1D115
250	ComPact NSX250 B/F/N	35/50	MicroLogic 2.3 / 5.3	250	100..250	LC1D115
275	ComPact NSX400 F/N	35/50	MicroLogic 2.3 / 5.3	400	160..400	LC1F185
315	ComPact NSX400 F/N	35/50	MicroLogic 2.3 / 5.3	400	160..400	LC1F225
350	ComPact NSX400 F/N	35/50	MicroLogic 2.3 / 5.3	400	160..400	LC1F265
400	ComPact NSX400 F/N	35/50	MicroLogic 2.3 / 5.3	400	160..400	LC1F330
500	ComPact NSX630 F/N	35/50	MicroLogic 2.3 / 5.3	630	150..630	LC1F400
630	ComPact NSX630 F/N	35/50	MicroLogic 2.3 / 5.3	630	150..630	LC1F500
800	ComPact NS800L	130	MicroLogic 2.0 / 5.0 / 6.0 / 7.0	800	320..800	LC1F630
1000	ComPact NS1000L	130	MicroLogic 2.0 / 5.0 / 6.0 / 7.0	1000	400..1000	LC1F630
						LC1F1250
1250	MasterPact MTZ1 12 H1/H2/H3	42/50/50	MicroLogic 5/6/7.0X Ii "fast"	1250	500..1259	LC1F1400
1400	MasterPact MTZ1 16 H1/H2/H3	42/50/50	MicroLogic 5/6/7.0X Ii "fast"	1600	630..1600	LC1F1400
1600	MasterPact MTZ1 16 H1/H2/H3 MasterPact MTZ2 16 N1/H1/H2	42/50/50	MicroLogic 5/6/7.0X Ii "fast"	1600	630..1600	LC1F1700
1700	MasterPact MTZ2 20 N1/H1/H2	42/50/50	MicroLogic 5/6/7.0X Ii "fast"	2000	800..2000	LC1F1700
2000	MasterPact MTZ2 20 N1/H1/H2	42/50/50	MicroLogic 5/6/7.0X Ii "fast"	2000	800..2000	LC1F1700
2100	MasterPact MTZ2 25 N1/H1/H2	42/50/50	MicroLogic 5/6/7.0X Ii "fast"	2500	1000..2500	LC1F2100

[1] Values for Fix circuit breaker with IEC60947-1 Tables 9 & 10 cross section of conductors. Check derating of circuit breaker and contactor according to ambiant temperature and installation.

Protection of motor circuits with fuses: introduction

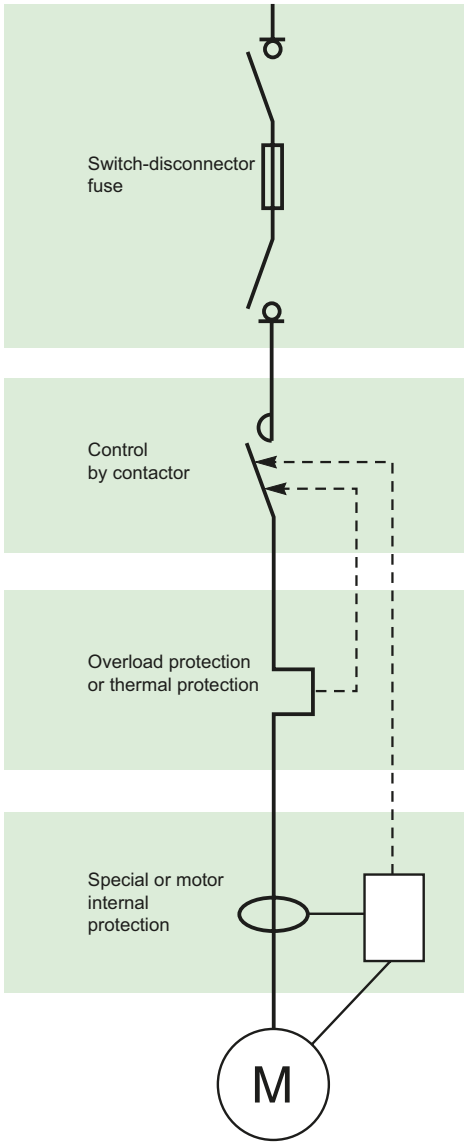
Fuse size table

The table below indicates the minimum and maximum fuse sizes depending on the rating of the switch and the applicable reference standard.

	BS	
	min.	max.
GSB32	A1	A1
GSB63	A2	A3
GSB100	A4	A4
GSB160	A4	A4
GSB200	B1	B2
GSB250	B1	B3
GSB400	B1	B4
GSB630	C2	C2
GSB800	C3	C3
GSB1250	D1	D1

	NFC
GSC32	10x38
GSC50	14x51
GSC125	22X58

	DIN NH	
	min.	max.
GSD63	000	000
GSD125	00	00
GSD160	00	00
GSD250	1	1
GSD400	2	2
GSD630	3	3
GSD800	3	3
GSD1250	4	4
ISFT100N	000	000
ISFT100	000	000
ISF.160	000	00
ISF.250	1	1
ISF.400	2	2
ISF.630	3	3



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Protection of motor feeders

A motor feeder is generally made up of:
- a control contactor
- a thermal relay for overcurrent protection
- a short-circuit protection device
- a disconnection device capable of interrupting load currents.

FuPact switch-disconnector fuses are ideally suited to perform the last two functions in the list. What is more, FuPact devices are totally compatible with the IEC 60204 machine directive.

Additional specific protection:
- fault limiting protection (while the motor is running)
- fault prevention (monitoring of motor insulation with motor off).

FuPact characteristics

The local emergency-off switch must have the AC23 characteristic for the rated motor current.

Motor starting characteristics are the following:
- peak current: 8 to 10 In
- duration of peak current: 20 to 30 ms
- starting current Id: 4 to 8 In
- starting time td: 2 to 4 seconds.

Short-circuit protection of motors is done by aM or gM [1] fuse-links that are sized to take into account the above characteristics.

FuPact offers a wide range of fuse utilisations, whatever the applicable reference standard.

[1] A gM fuse-link is in fact simply a derated gG fuse-link.

Coordination of devices on the motor feeder

- Thermal protection of:
  - motor
  - conductors
  - switch
  - fuse

is done by the thermal relay on the contactor.
- Overload (or short-circuit) protection of:
  - motor
  - conductors
  - switch
  - thermal relay

is done by the fuse.

To obtain a high level of operational quality, it is important to check **coordination of the devices** on the motor feeder in compliance with standard IEC 60947-4.

NOTE : Proposed fuses are based on 4 poles winding 50 Hz induction motors direct on line start with starting current Id/In ≤ 7 and starting time td ≤ 10 sec.
The choice of fuses and overload relay shall be checked according to the actual motor's characteristics, particularly for high efficiency motors that may have higher starting current.

Protection of motor circuits
with NFC fuses

Selection tables for FuPact devices and associated NFC fuse-links

Example:
A 30 kW motor supplied at 690 V is protected by:
- 80 A gG fuse-links
- 32 A aM fuse-links.

Both types of fuse-links may be mounted on a FuPact INFC63 [1] or higher.
See the grey section in the table on following page.

380 - 400 V AC

P(kW)	(HP)	In (A)	FuPact	gG	FuPact	aM
0,37	0,49	**1,1**	GSC32	4	GSC32	2
0,55	0,73	**1,6**	GSC32	6	GSC32	2
0,75	1,0	**2,2**	GSC32	10	GSC32	4
1,1	1,5	**2,7**	GSC32	10	GSC32	4
1,5	2,0	**3,8**	GSC32	16	GSC32	4
2,2	2,9	**5,5**	GSC32	16	GSC32	6
3,0	4,0	**7,1**	GSC32	20	GSC32	8
4,0	5,3	**9,2**	GSC32	25	GSC32	10
5,5	7,3	**12,0**	GSC32	32	GSC32	12
7,5	10	**16**	GSC50	40	GSC32	16
11	15	**23**	GSC50	50	GSC32	25
15	20	**31**	GSC125	80	GSC32	32
19	25	**38**	GSC125	80	GSC50	40
22	29	**45**	GSC125	100	GSC50	50
30	40	**60**	GSC125	125	GSC125	63
37	49	**75**	NA	160	GSC125	80
45	60	**87**	NA	200	GSC125	100
55	73	**107**	NA	200	GSC125	125

415 V AC

P(kW)	(HP)	In (A)	FuPact	gG	FuPact	aM
0,37	0,49	**1,1**	GSC32	4	GSC32	2
0,55	0,73	**1,5**	GSC32	6	GSC32	2
0,75	1,0	**2,0**	GSC32	6	GSC32	2
1,1	1,5	**2,5**	GSC32	10	GSC32	4
1,5	2,0	**3,5**	GSC32	16	GSC32	4
2,2	2,9	**5,0**	GSC32	16	GSC32	6
3,0	4,0	**6,5**	GSC32	20	GSC32	8
4,0	5,3	**8,4**	GSC32	25	GSC32	10
5,5	7,3	**11,0**	GSC32	32	GSC32	12
7,5	10	**14**	GSC50	40	GSC32	16
11	15	**21**	GSC50	50	GSC32	25
15	20	**28**	GSC125	63	GSC32	32
19	25	**35**	GSC125	80	GSC50	40
22	29	**41**	GSC125	80	GSC50	50
30	40	**55**	GSC125	100	GSC125	63
37	49	**69**	NA	160	GSC125	80
45	60	**80**	NA	160	GSC125	80
55	73	**98**	NA	200	GSC125	100

660 - 690 V AC

P(kW)	(HP)	In (A)	FuPact	gG	FuPact	aM
0,37	0,49	**0,7**	GSC50	2	GSC50	2
0,55	0,73	**0,9**	GSC50	4	GSC50	2
0,75	1,0	**1,1**	GSC50	4	GSC50	2
1,1	1,5	**1,6**	GSC50	6	GSC50	2
1,5	2,0	**2,2**	GSC50	6	GSC50	4
2,2	2,9	**2,8**	GSC50	10	GSC50	4
3,0	4,0	**3,8**	GSC50	10	GSC50	6
4,0	5,3	**4,9**	GSC50	16	GSC50	6
5,5	7,3	**6,7**	GSC50	20	GSC50	8
7,5	10	**9**	GSC50	25	GSC50	10
11	15	**13**	GSC125	32	GSC50	16
15	20	**17**	GSC125	40	GSC50	20
19	25	**22**	GSC125	50	GSC50	25
22	29	**24**	GSC125	50	GSC50	25
30	40	**32**	GSC125	80	GSC125	32
37	49	**39**	GSC125	80	GSC125	40
45	60	**47**	NA	100	GSC125	50
55	73	**57**	NA	125	GSC125	63
75	100	**77**	NA	160	GSC125	80
90	120	**93**	NA	200	NA	100
110	147	**113**	NA	250	NA	125

[1] FuPact is designed to allow overrated protection.

Protection of motor circuits
with DIN fuses

Selection tables for FuPact devices and associated DIN fuse-links

Example:
A 37 kW motor supplied at 400 V is protected by:
- 160 A gG fuse-links
- 80 A aM fuse-links.

Both types of fuse-links may be mounted on a FuPact GSD125 or higher.
See the grey section in the table below.

380 - 400 V AC

P(kW)	(HP)	In (A)	FuPact	gG	FuPact	aM
0,37	0,49	**1,1**	GSD63	4	GSD63	2
0,55	0,73	**1,6**	GSD63	6	GSD63	2
0,75	1,0	**2,2**	GSD63	10	GSD63	4
1,1	1,5	**2,7**	GSD63	10	GSD63	4
1,5	2,0	**3,8**	GSD63	16	GSD63	4
2,2	2,9	**5,5**	GSD63	16	GSD63	6
3,0	4,0	**7,1**	GSD63	20	GSD63	8
4,0	5,3	**9,2**	GSD63	25	GSD63	10
5,5	7,3	**12,0**	GSD63	32	GSD63	16
7,5	10	**16**	GSD63	40	GSD63	16
11	15	**23**	GSD63	50	GSD63	25
15	20	**31**	GSD63	80	GSD63	32
19	25	**38**	GSD63	80	GSD63	40
22	29	**45**	GSD125	100	GSD63	50
30	40	**60**	GSD125	125	GSD63	63
37	49	**75**	GSD125	160	GSD125	80
45	60	**87**	GSD250	200	GSD125	100
55	73	**107**	GSD250	200	GSD125	125
75	100	**149**	GSD250	250	GSD160	160
90	120	**179**	GSD400	355	GSD250	200
110	147	**214**	GSD400	400	GSD250	250
132	176	**247**	GSD630	450	GSD250	250
150	200	**293**	GSD630	500	GSD400	315
160	213	**300**	GSD630	630	GSD400	315
200	267	**391**	GSD630	800	GSD630	400

415 V AC

P(kW)	(HP)	In (A)	FuPact	gG	FuPact	aM
0,37	0,49	**1,1**	GSD63	4	GSD63	2
0,55	0,73	**1,5**	GSD63	6	GSD63	2
0,75	1,0	**2,0**	GSD63	6	GSD63	2
1,1	1,5	**2,5**	GSD63	10	GSD63	4
1,5	2,0	**3,5**	GSD63	16	GSD63	4
2,2	2,9	**5,0**	GSD63	16	GSD63	6
3,0	4,0	**6,5**	GSD63	20	GSD63	8
4,0	5,3	**8,4**	GSD63	25	GSD63	10
5,5	7,3	**11,0**	GSD63	32	GSD63	16
7,5	10	**14**	GSD63	40	GSD63	16
11	15	**21**	GSD63	50	GSD63	25
15	20	**28**	GSD63	63	GSD63	32
19	25	**35**	GSD63	80	GSD63	40
22	29	**41**	GSD63	80	GSD63	50
30	40	**55**	GSD125	100	GSD63	63
37	49	**69**	GSD125	160	GSD125	80
45	60	**80**	GSD125	160	GSD125	80
55	73	**98**	GSD250	200	GSD125	100
75	100	**136**	GSD250	250	GSD160	160
90	120	**164**	GSD400	315	GSD250	200
110	147	**196**	GSD400	355	GSD250	200
132	176	**226**	GSD400	400	GSD250	250
150	200	**268**	GSD630	450	GSD400	315
160	213	**275**	GSD630	500	GSD400	315
200	267	**358**	GSD630	630	GSD400	400

660 - 690 V AC

PkW	HP	In (A)	FuPact	gG	FuPact	aM
0,37	0,49	**0,7**	GSD63	2	GSD63	2
0,55	0,73	**0,9**	GSD63	4	GSD63	2
0,75	1,0	**1,1**	GSD63	4	GSD63	2
1,1	1,5	**1,6**	GSD63	6	GSD63	2
1,5	2,0	**2,2**	GSD63	6	GSD63	4
2,2	2,9	**2,8**	GSD63	10	GSD63	4
3,0	4,0	**3,8**	GSD63	10	GSD63	6
4,0	5,3	**4,9**	GSD63	16	GSD63	6
5,5	7,3	**6,7**	GSD63	20	GSD63	8
7,5	10	**9**	GSD63	25	GSD63	10
11	15	**13**	GSD63	32	GSD63	16
15	20	**17**	GSD63	40	GSD63	20
18.5	25	**22**	GSD63	50	GSD63	25
22	29	**24**	GSD63	50	GSD63	25
30	40	**32**	GSD125	80	GSD63	32
37	49	**39**	GSD125	80	GSD63	40
45	60	**47**	GSD125	100	GSD63	50
55	73	**57**	GSD125	125	GSD63	63
75	100	**77**	GSD250	160	GSD125	80
90	120	**93**	GSD250	200	GSD125	100
110	147	**113**	GSD400	250	GSD125	125
132	176	**134**	GSD400	250	GSD250	160
150	200	**152**	GSD400	315	GSD250	160
160	213	**162**	GSD400	315	GSD250	160
200	267	**203**	GSD630	400	GSD250	200

Type 2 coordination (IEC 60947-4-1)

Ue: 380-415 V AC

Schneider Electric switch-disconnector fuses and contactors

Performance: Ue = 380-415 V - "Iq" 50 kA

Starting Class 10 A/10

Motors				Switch-fuse [1]	Fuse-link type		Contactors [2]	Thermal relays	
P (kW)	I (A) 380 V	I (A) 415 V	Ie Max (A)	Type	gG rating (A)	aM rating (A)	Type	Type	Irth (A)
0.37	1.2	1.1	1.6	GSC32 / GSD63	4	2	LC1-D09	LRD 06	1/1.6
0.55	1.6	1.5	1.6	GSC32 / GSD63	6	2	LC1-D09	LRD 06	1/1.6
0.75	2	1.8	2.5	GSC32 / GSD63	10	4	LC1-D09	LRD 07	1.6/2.5
1.1	2.8	2.6	2.5	GSC32 / GSD63	10	4	LC1-D09	LRD 07	1.6/2.5
1.5	3.7	3.4	4	GSC32 / GSD63	16	4	LC1-D09	LRD 08	2.5/4
2.2	5.3	4.8	6	GSC32 / GSD63	16	6	LC1-D09	LRD 10	4/6
3	7	6.5	8	GSC32 / GSD63	20	8	LC1-D09	LRD 12	5.5/8
4	9	8.2	10	GSC32 / GSD63	25	10	LC1-D12	LRD 14	7/10
5.5	12	11	12	GSC32 / GSD63	32	16	LC1-D12	LRD 16	9/13
7.5	16	14	16	GSC32 / GSD63	-	16	LC1-D18	LRD 21	12/18
				GSC50 / GSD63	40	-			
10	21	19	24	GSC32 / GSD63	-	25	LC1-D25	LRD 22	16/24
				GSC50 / GSD63	50	-			
11	23	21	24	GSC32 / GSD63	-	25	LC1-D25	LRD 22	16/24
				GSC50 / GSD63	50	-			
15	30	28	32	GSC32 / GSD63	-	32	LC1-D32	LRD 32	23/32
				GSC125 / GSD63	63	-			
18.5	37	34	40	GSC50 / GSD63	-	40	LC1-D40A	LRD 340	30/40
				GSC125 / GSD63	80	-			
22	43	40	50	GSC50 / GSD63	-	50	LC1-D50A	LRD 350	37/50
				GSC125 / GSD63	100	-			
30	59	55	63	GSC125 / GSD63	-	63	LC1-D65A	LRD 365	48/65
				GSC125 / GSD125	125	-			
37	72	66	80	GSD125	160	-	LC1-D80	LRD 3363	63/80
				GSC125 / GSD125	-	80			
45	85	80	100	GSC125 / GSD125	-	100	LC1-D115	LR9-D53 67	60/100
				GSD250	200	-			
55	105	100	115	GSC125 / GSD125	-	125	LC1-D115	LR9-D53 69	90/150
				GSD250	200	-			
75	140	135	150	GSD160	-	160	LC1-D150	LR9-D53 69	90/150
				GSD250	250	-			
90	170	160	185	GSD250	-	200	LC1-F265	LR9-F53 71	132/220
				GSD400	355	-			
110	210	200	220	GSD250	-	250	LC1-F330	LR9-F53 71	132/220
				GSD400	400	-			
132	250	230	250	GSD250	-	250	LC1-F330	LR9-F73 75	200/330
				GSD630	450	-			
160	300	270	265	GSD400	-	315	LC1-F400	LR9-F73 75	200/330
				GSD630	630	-			
200	380	361	400	GSD400	-	400	LC1-F500	LR9-F73 79	300/500
				GSD630	800	-			
250	460	430	500	GSD630	800	500	LC1-F500	LR9-F73 79	300/500
280	520	475	630	GSD630	800	630	LC1-F630	LR9-F73 81	380/630
300	565	500	630	GSD630	-	630	LC1-F630	LR9-F73 81	380/630
335	610	560	630	GSD630	-	630	LC1-F630	LR9-F73 81	380/630
355	630	590	630	GSD630	-	800	LC1-F630	LR9-F73 81	380/630

[1] GSC for NFC cylindrical fuse-link / GSD for NH DIN type fuse-link.
[2] Reversers: replace LC1 by LC2; star-delta starter: replace LC1 by LC3.

Type 2 coordination (IEC 60947-4-1)

Ue: 380-415 V AC

Schneider Electric switch-disconnector fuses and contactors

Performance: Ue = 380-415 V - "Iq" 50 kA

Starting Adjustable class 10 A to 30 [4]

Motors				Switch-fuse [1]	Fuse-link type		Contactors [2]	Thermal relays	
P (kW)	I (A) 380 V	I (A) 415 V	Ie Max (A)	Type	gG rating (A)	aM rating (A)	Type	Type	Irth (A)
0.37	1.2	1.1	2	GSC32 / GSD63	4	2	LC1-D09	LTM R08	0.4/8 [3]
0.55	1.6	1.5	2	GSC32 / GSD63	6	2	LC1-D09	LTM R08	0.4/8 [3]
0.75	2	1.8	4	GSC32 / GSD63	10	4	LC1-D09	LTM R08	0.4/8 [3]
1.1	2.8	2.6	4	GSC32 / GSD63	10	4	LC1-D09	LTM R08	0.4/8 [3]
1.5	3.7	3.4	4	GSC32 / GSD63	16	4	LC1-D09	LTM R08	0.4/8 [3]
2.2	5.3	4.8	6	GSC32 / GSD63	16	6	LC1-D09	LTM R08	0.4/8 [3]
3	7	6.5	8	GSC32 / GSD63	20	8	LC1-D09	LTM R08	0.4/8 [3]
4	9	8.2	10	GSC32 / GSD63	25	10	LC1-D12	LTM R27	1.35/27 [3]
5.5	12	11	12	GSC32 / GSD63	32	16	LC1-D18	LTM R27	1.35/27 [3]
7.5	16	14	16	GSC32 / GSD63	-	16	LC1-D25	LTM R27	1.35/27 [3]
				GSC50 / GSD63	40	-			
10	21	19	25	GSC32 / GSD63	-	25	LC1-D32	LTM R27	1.35/27 [3]
				GSC50 / GSD63	50	-			
11	23	21	25	GSC32 / GSD63	-	25	LC1-D32	LTM R27	1.35/27 [3]
				GSC50 / GSD63	50	-			
15	30	28	32	GSC32 / GSD63	-	32	LC1-D40A	LTM R100	5/100 [3]
				GSC125 / GSD63	80	-			
18.5	37	34	40	GSC50 / GSD63	-	40	LC1-D40A	LTM R100	5/100 [3]
				GSC125 / GSD63	80	-			
22	43	40	50	GSC50 / GSD63	-	50	LC1-D50A	LTM R100	5/100 [3]
				GSC125 / GSD63	100	-			
30	59	55	63	GSC125 / GSD63	-	63	LC1-D65A	LTM R100	5/100 [3]
				GSC125 / GSD125	125	-			
37	72	66	80	GSD125	-	80	LC1-D80	LTM R100	5/100 [3]
				GSC125 / GSD125	160	-			
45	85	80	80	GSC125 / GSD125	-	100	LC1-D115	LTM R100	5/100 [3]
				GSD250	200	-			
55	105	100	115	GSC125 / GSD125	-	125	LC1-D115	LTM R08	On CT
				GSD250	200	-			
75	140	135	150	GSD160	-	160	LC1-D150	LTM R08	On CT
				GSD250	250	-			
90	170	160	185	GSD250	-	200	LC1-D265	LTM R08	On CT
				GSD400	355	-			
110	210	200	225	GSD250	-	250	LC1-F330	LTM R08	On CT
				GSD400	400	-			
132	250	230	250	GSD250	-	250	LC1-F330	LTM R08	On CT
				GSD630	450	-			
160	300	270	315	GSD400	-	315	LC1-F400	LTM R08	On CT
				GSD630	630	-			
200	380	361	400	GSD400	-	400	LC1-F500	LTM R08	On CT
				GSD630	800	-			
250	460	430	500	GSD630	800	500	LC1-F500	LTM R08	On CT
280	520	475	630	GSD630	800	630	LC1-F630	LTM R08	On CT
300	565	500	630	GSD630	-	630	LC1-F630	LTM R08	On CT
335	610	560	630	GSD630	-	630	LC1-F630	LTM R08	On CT
355	630	590	630	GSD630	-	800	LC1-F630	LTM R08	On CT

[1] GSC for NFC cylindrical fuse-link / GSD for NH DIN type fuse-link
[2] Reversers: replace LC1 by LC2; star-delta starter: replace LC1 by LC3.
[3] Currents transformers built-in electronic relays.
[4] For use with overload relay setted in class 20 and 30, apply respectively a derating of 20 % and 37 %.

Type 2 coordination (IEC 60947-4-1)

Ue: 660-690 V AC

Schneider Electric switch-disconnector fuses and contactors

Performance: Ue = 660-690 V - "Iq" 50 kA

Starting Class 10 A/10

Motors			Switch-fuse [1]	Fuse-link type		Contactors [2]	Thermal relays	
P (kW)	I (A) 690 V	Ie Max (A)	Type	gG rating (A)	aM rating (A)	Type	Type	Irth (A)
0.75	1.1	1.6	GSC50 / GSCD63	4	2	LC1-D09	LRD 06	1/1.6
1	1.6	1.6	GSC50 / GSCD63	6	2	LC1-D09	LRD 06	1/1.6
1.5	2.2	2.5	GSC50 / GSCD63	6	4	LC1-D09	LRD 07	1.6/2.5
2.2	2.8	4	GSC50 / GSCD63	10	4	LC1-D09	LRD 08	2.5/4
3	3.8	4	GSC50 / GSCD63	10	6	LC1-D09	LRD 08	2.5/4
4	4.9	6	GSC50 / GSCD63	16	6	LC1-D09	LRD 10	4/6
5.5	6.7	8	GSC50 / GSCD63	20	8	LC1-D09	LRD 12	5.5/8
7.5	8.9	10	GSC50 / GSCD63	25	10	LC1-D25	LRD 16	9/13
11	12.8	13	GSC50 / GSCD63	-	16	LC1-D25	LRD 16	9/13
			GSC125 / GSD63	32	-			
15	17	20	GSC50 / GSD63	-	20	LC1-D25	LRD 22	16/24
			GSC125 / GSD63	40	-			
18.5	22	24	GSC50 / GSD63	-	25	LC1-D32	LRD 22	16/24
			GSC125 / GSD63	50	-			
22	24	32	GSC50 / GSD63	-	25	LC1-D40A	LRD 332	23/32
			GSC125 / GSD63	50	-			
30	32	32	GSC125 / GSD63	-	32	LC1-D40A	LRD 340	30/40
			GSC125 / GSD125	80	-			
37	39	40	GSC125 / GSD63	-	40	LC1-D65A	LRD 365	37/50
			GSC125 / GSD125	80	-			
45	47	50	GSC125 / GSD63	-	50	LC1-D80	LRD 3357	37/50
			GSD125	100	-			
55	57	63	GSC125 / GSD63	-	63	LC1-D115	LRD 3359	48/65
			GSD125	125	-			
75	77	80	GSD125	-	80	LC1-D115	LRD 3363	63/80
			GSD250	160	-			
90	93	100	GSD125	-	100	LC1-D150	LR9-D53 69	90/150
			GSD250	200	-			
110	113	125	GSD125	-	125	LC1-F185	LR9-D53 69	90/150
			GSD400	250	-			
132	134	160	GSD250	-	160	LC1-F265	LR9-F53 71	132/220
			GSD400	250	-			
160	162	160	GSD250	-	160	LC1-F265	LR9-F53 71	132/220
			GSD400	315	-			
200	203	200	GSD250	-	200	LC1-F400	LR9-F73 75	200/330
			GSD630	400	-			
220	223	250	GSD250	-	250	LC1-F400	LR9-F73 75	200/330
			GSD630	450	-			
250	253	315	GSD400	-	315	LC1-F400	LR9-F73 75	200/330
			GSD630	500	-			
315	320	355	GSD400	-	355	LC1-F500	LR9-F73 79	300/500
355	354	400	GSD400	-	400	LC1-F630	LR9-F73 79	300/500
400	400	450	GSD630	-	450	LC1-F630	LR9-F73 79	300/500
450	455	500	GSD630	-	500	LC1-F630	LR9-F73 79	300/500

[1] GSC for NFC cylindrical fuse-link / GSD for NH DIN type fuse-link.
[2] Reversers: replace LC1 by LC2; star-delta starter: replace LC1 by LC3.

Type 2 coordination (IEC 60947-4-1)

Ue: 660-690 V

Schneider Electric switch-disconnector fuses and contactors

Performance: Ue = 660-690 V - "Iq" 50 kA

Starting Adjustable class 10 A to 30 [3]

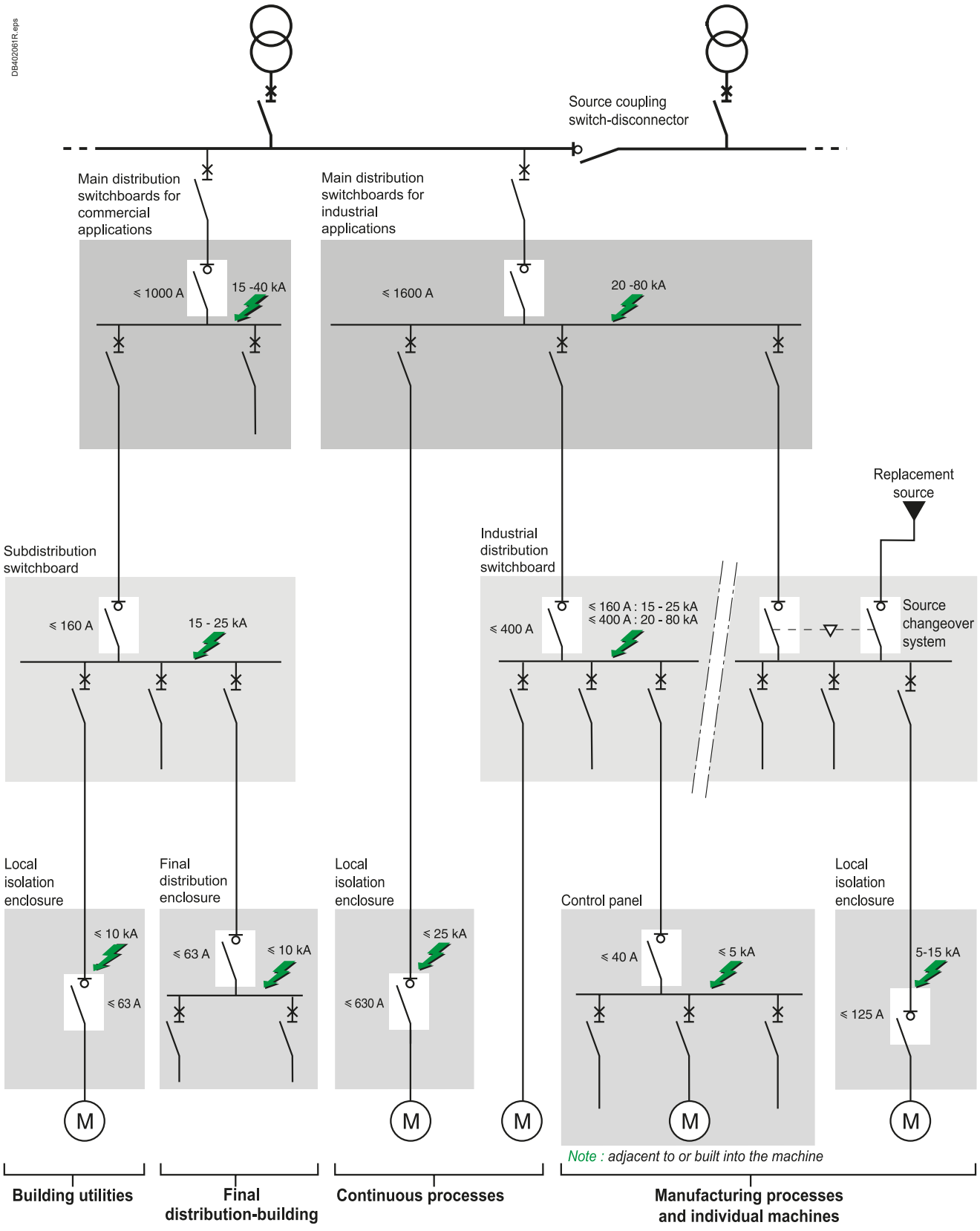
Motors			Switch-fuse [1]	Fuse-link type		Contactors [2]	Thermal relays	
P (kW)	I (A) 690 V	Ie Max (A)	Type	gG rating (A)	aM rating (A)	Type	Type	Irth (A)
0.75	1.1	2	GSC50 / GSCD63	4	2	LC1-D09	LTM R08	0.4/8 [4]
1	1.6	2	GSC50 / GSCD63	6	2	LC1-D09	LTM R08	0.4/8 [4]
1.5	2.2	4	GSC50 / GSCD63	6	4	LC1-D09	LTM R08	0.4/8 [4]
2.2	2.8	4	GSC50 / GSCD63	10	4	LC1-D09	LTM R08	0.4/8 [4]
3	3.8	6	GSC50 / GSCD63	10	6	LC1-D09	LTM R08	0.4/8 [4]
4	4.9	6	GSC50 / GSCD63	16	6	LC1-D09	LTM R08	0.4/8 [4]
5.5	6.7	8	GSC50 / GSCD63	20	8	LC1-D09	LTM R08	0.4/8 [4]
7.5	8.9	10	GSC50 / GSCD63	25	10	LC1-D25	LTM R27	1.35/27 [4]
11	12.8	16	GSC50 / GSCD63	-	16	LC1-D25	LTM R27	1.35/27 [4]
			GSC125 / GSD63	32	-			
15	17	20	GSC50 / GSD63	-	20	LC1-D25	LTM R27	1.35/27 [4]
			GSC125 / GSD63	40	-			
18.5	22	25	GSC50 / GSD63	-	25	LC1-D32	LTM R27	1.35/27 [4]
			GSC125 / GSD63	50	-			
22	24	25	GSC50 / GSD63	-	25	LC1-D40A	LTM R27	1.35/27 [4]
			GSC125 / GSD63	50	-			
30	32	32	GSC125 / GSD63	-	32	LC1-D40A	LTM R100	5/100 [4]
			GSC125 / GSD125	80	-			
37	39	40	GSC125 / GSD63	80	40	LC1-D65A	LTM R100	5/100 [4]
			GSC125 / GSD125					
45	47	50	GSC125 / GSD63	-	50	LC1-D80	LTM R100	5/100 [4]
			GSD125	100	-			
55	57	63	GSC125 / GSD63	-	63	LC1-D115	LTM R100	5/100 [4]
			GSD125	125	-			
75	77	80	GSD125	-	80	LC1-D115	LTM R100	5/100 [4]
			GSD250	160	-			
90	93	100	GSD125	-	100	LC1-D150	LTM R100	5/100 [4]
			GSD250	200	-			
110	113	125	GSD125	-	125	LC1-F185	LTM R08	On CT
			GSD400	250	-			
132	134	160	GSD250	-	160	LC1-F265	LTM R08	On CT
			GSD400	250	-			
160	162	160	GSD250	-	160	LC1-F265	LTM R08	On CT
			GSD400	315	-			
200	203	200	GSD250	-	200	LC1-F400	LTM R08	On CT
			GSD630	400	-			
220	223	250	GSD250	-	250	LC1-F400	LTM R08	On CT
			GSD630	450	-			
250	253	315	GSD400	-	315	LC1-F400	LTM R08	On CT
			GSD630	500	-			
315	320	355	GSD400	-	355	LC1-F500	LTM R08	On CT
355	354	400	GSD400	-	400	LC1-F630	LTM R08	On CT
400	400	450	GSD630	-	450	LC1-F630	LTM R08	On CT
450	455	500	GSD630	-	500	LC1-F630	LTM R08	On CT

[1] GSC for NFC cylindrical fuse-link / GSD for NH DIN type fuse-link.
[2] Reversers: replace LC1 by LC2; star-delta starter: replace LC1 by LC3.
[3] For use with overload relay setted in class 20 and 30, apply respectively a derating of 20 % and 37 %.
[4] Currents transformers built-in electronic relays.

Use of LV switches

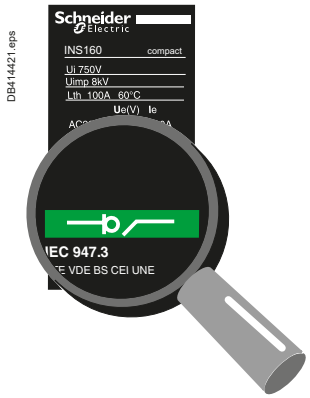
Presentation

Functions performed by switch



Note : adjacent to or built into the machine

Use of LV switches
Presentation



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Functions and positions of LV switches

Switches are necessary in different level of low voltage installation for the following main applications :

- functional switching
- supplying installation from different sources (transfert-switching equipment)
- starting stopping equipements
- emergency switching
- switching off and disconnection for isolation of one circuit or switchboard for maintenance.

IEC 60364-5-53 Electrical installations of buildings – Part 5-53: Selection and erection of electrical equipment

Isolation, switching and control standard provides requirement for isolation of circuits, functional switching, and emergency switching.

IEC 60204-1 Safety of machinery - Electrical equipment of machines - Part 1: General requirements

standard provides requirements for disconnection of machines.

"Suitability for isolation" is necessary to ensure people safety in open position.

Suitable for isolation

Switch-disconnector

"Isolation" function i.e disconnection from supply is required for all circuits or equipement in order to guarantee the safety of people during repairs or maintenance.

Low voltage electrical installation standards (IEC 60364 series for example) provide requirements to ensure properly this function:

Device for isolation shall:

- isolate all live conductors (including neutral but not PEN)
- withstand specified impulse voltage in open position
- have a leakage current below specified values in open position
- be lockable in the "open" position so as to prevent any risk of unvolontary reclosing
- ensure that the isolating distance between open contacts of the device is visible or be clearly and reliably indicated by "off" or "open" marking.

These requirements are totally covered with devices compliant to IEC 60947-1/2/3 suitable for isolation.

This characteristics is clearly marked on product by the symbol of switch-disconnector.

Use of LV switches

Switch-disconnector standards and characteristics

IEC60947-3 Low-voltage switchgear and controlgear – Part 3:
Switches, disconnectors and fuse-combination units specifies the performances and test of switch-disconnector. The main characteristics of an industrial switch-disconnector are:

- Rated and limiting values for the main circuit: voltage, current, short time withstand in case of short circuit, making current in case of switch on-to short-circuit, rated conditional short-circuit with a specified short-circuit protection.
- Utilization category (for a switching device or a fuse) is a “combination of specified requirements related to the conditions in which the switching device or the fuse fulfils its purpose, selected to represent a characteristic group of practical applications” [IEV 441-17-19]

This characteristic (alphanumerical code) defines requirement linked to a type of load, such as making and breaking current for durability test, minimum number of operation, power factor of the current to make and breake.
See example below.

- control circuits: opening / closing Coils and auxiliaries allowing remote opening and/or closing if any.
- auxiliary circuits: O/C Contacts for remote signaling.

Example:
A switch with a rating of 125 A, from the AC23 category must be able to:

- make a 10 In (1250 A) current with a cos φ of 0.35
- break a 8 In (1000 A) current with a cos φ of 0.35.

Its other characteristics are:

- to withstand a 12 In - 1 s short-circuit current, which defines the Icw = 1500 A r.m.s. thermal withstand during 1 s.

Utilization category		Characteristic applications
Frequent operations	**Non frequent operations**	
AC-21A	AC-21B	Resistive loads including moderate overloads (cos φ = 0.95)
AC-22A	AC-22B	Mixed resistive and inductive loads including moderate overloads (cos φ = 0.65)
AC-23A	AC-23B	Motors with cage winding or orther loads which are highly inductive (cos φ = 0.45 or 0.35)

Choosing a Schneider Electric switch-disconnector

The switch must be chosen according to:
■ the characteristics of the network on which it is installed,
■ the location and the application,
■ coordination with the upstream protection devices (in particular overload and short-circuit).

Choice criteria

Network characteristics
Nominal voltage, nominal frequency and nominal current are determined in the same way as for a circuit breaker:
■ nominal voltage = nominal voltage of the network
■ frequency = network frequency
■ nominal current = rated current of a value immediately higher than the downstream load current. Note that the rated current is defined for a given ambient temperature and that a derating may have to be taken into account.

Location and application
This determines the type and characteristics or main functions that the switch must possess. There are 3 function levels (see table opposite):
■ basic functions, virtually common to all switch types:
□ isolation, control, padlocking, safety.
■ additional characteristic functions
□ direct formulation of the needs of the user and of the switch environment, i.e.:
- industrial type performance
- need for emergency stopping
- Isc level
- type of interlocking
- type of control
- utilization category
- mounting system.

■ specific functions
□ linked to operation and to installation requirements, i.e.:
- earth leakage protection
- motor mechanisms
- remote opening (“emergency stop” function)
- withdrawability.

The following table enables choice of switch according to requirements.
■ choice table
Comparison of the application table K (see page C-5) and the switch technical data table M (see page C-7) lets you specify which switch range should be used.

Coordination
All switches must be protected by an overcurrent protection device placed upstream.

The tables below give the coordination performance of circuit breakers and switch-disconnector of main Schneider Electric ranges: in the event of an overload or a short-circuit the circuit breaker proposed in the table will protect the switch-disconnector according to its electrodynamic withstand and short-time and permanent withstand.

Choosing a Schneider Electric switch-disconnector

Switch-disconnector characteristics according to application

		Main distribution switchboards	Industrial distribution switchboard	Subdistribution switchboards	Final distribution enclosures	Control panel	Local isolation enclosures
Current range		400 to 6300 A	40 to 630 A	⩽ 160 A	⩽ 125 A	⩽ 40/125 A	10 to 630 A
LV switch basic functions							
making and breaking load current		■	■	■	■	■	■
Isolation [1]		■	■	■	■	■	■
Padlocking		■	■	■	■	■	■
Characteristics							
Maximum short-circuit level [2]		20 to 80 kA	■ I ⩽ 160 A: 15 to 25 kA	■ I ⩽ 63 A: 15 kA	10 kA	3 to 5 kA	■ I ⩽ 63 A: 10 kA
			■ I ⩽ 630 A: 20 to 80 kA	■ I ⩽ 160 A: 25 kA			■ I ⩽ 630 A: 25 kA
Utilization category	AC21A			■	■		
	AC22A	■	■	□	□		
	AC23		□			■	■
	AC3						■ I ⩽ 63 A
Handle	Rotary	■	■	■	□	■	■
	Direct front	■	□	■	■	■	□
	Front extended	□	□	□			■
	Side extended		□				■
Mounting	On plate	■	□	□		■	□
	Symmetrical rail (45 mm tip)	□	■	■	■	□	
Specific functions							
Earth leakage protection		□	□	□	□		
Other	Draw-out, auxiliary switches, auxiliary releases, remote control	■	■	□			□
	Emergency stop		□	□	□		□

Table K
■ compulsory.
□ possible.

[1] with positive break indication or visible isolation
[2] values are indicative. Maximum presumed short-circuit current shall be calculated for each installation

Choosing a Schneider Electric switch-disconnector

The switches available in the Schneider Electric offer

Schneider Electric offers its customers several ranges of switches.
Choice depends on:
- the application
- the additional functions to be implemented (accessories, installation, residual current protection, etc.).

The following table summarises the possibilities offered by all the Schneider Electric ranges according to the applications described above.

Applications / Products	Incoming switches for					Local isolation switches
	Main distribution switchboards 400-6300 A	Industrial distribution switchboards 400-630 A	Subdistribution switchboards ⩽ 160 A	Final distribution enclosures ⩽ 125 A	Control panels ⩽ 40/125 A	Local isolation enclosures 10-630 A
Vario					■	■
Acti **9** iSW / iID (modular profile)				■		□
Acti **9** iSW-NA (modular profile)				□		■
ComPact INS ⩽ 160 (modular profile)		■	■	■		■
NG125 NA (modular profile)			■	■		■
ComPact INS (industrial)	■	■				■
ComPact NSXm NA (Modular / Industrial)			■	□		□
ComPact NSX-NA (industrial)	□	■	□			■
MasterPact NA/HA/HF (industrial)	■					

Table L
■ very common
□ fairly common.

Choosing a Schneider Electric switch-disconnector

Switch-disconnector range technical data

Table M below lists the main technical data of the switches in the Schneider Electric ranges.

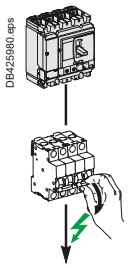
Range		Vario	Acti 9			Multi 9	ComPact					MasterPact		
			iSW	iSW NA	iID	NG125 NA	INS	INV	NSXm NA	NSX NA	NS NA	NA	HA	HF
Clip-on on rail			■	■	■	■	■ [3]	■ [3]	■					
Main functions	Isolation	■	■ [5]	■	■	■	■	■	■	■	■	■	■	■
	Positive break indication	■	■	■	■	■	■	■	■	■	■	■	■	■
	Visible isolation							■						
Emergency stop	Manual [7]	■				■	■ [4]	■ [4]	■ [4]					
	Remote (MN coil)			■ [6]	■ [6]	■ [6]			■ [6]	■ [6]	■ [6]	■ [6]	■ [6]	■ [6]
Other functions	Residual current				■	■ [8]				■ [8]				
	Remote opening (MX)			■	■	■			■	■	■	■	■	■
	Remote control (Open Close)									■	■ [9]	■	■	■
Fixed/drawout	Fixed	■	■	■	■	■	■	■	■	■	■	■	■	■
	Drawout									■	■ [9]	■	■	■
On/Off indication contact		■	■	■	■ [1]	■ [1]	■ [2]	■ [2]	■	■	■	■	■	■
Ratings (A)	12	■												
	16				■									
	20	■												
	25	■			■									
	32	■												
	40	■	■	■	■		■							
	50								■					
	63	■	■	■	■	■	■							
	80	■		■	■	■	■							
	100		■	■	■	■	■	■	■	■				
	125	■	■			■	■							
	160	■					■	■	■	■				
	175	■												
	250						■	■		■				
	320						■	■						
	400						■	■		■				
	500						■	■						
	630						■	■		■	■		■	
	800						■	■			■	■	■	■
	1000						■	■			■	■	■	■
	1250						■	■			■	■	■	■
	1600						■	■			■	■	■	■
	2000						■	■			■		■	■
	2500						■	■			■		■	■
	3200										■		■	■
	4000												■	
	5000												■	
	6300												■	

Table M

[1] SD auxilary contact available on iID.
[2] OF contact and CAO or CAF.
[3] Only 40 to 160 A (modular profile).
[4] Specific INS/INV emergency stop switches.
[5] Only on ratings 40/63/100/125. iSW 20 and 32 are switch without isolation function according to IEC 60669-1.
[6] With MN auxiliaries.
[7] Yellow front plate/red handle.
[8] Associated Vigi bloc.
[9] Option available up to 1600 A.

Switch-disconnector - Circuit breaker coordination

Upstream: Acti9 iC40, iC60, C120, NG125
Downstream: Acti9 iID40, iID, RCCB ID B type



Ue: 380-415 V AC

Downstream	Switch-disconnector	iID40			iID [1] [2]					RCCB ID				
	Rating (A)	25	40	63	25	40	63	80	100	25	40	63	100	125
	Icw (A)	500	800	1260	500	800	1260	1200	1500	500	500	630	800	1250
	Icm (kÂ)	5	5	5	5	5	5	5	5	5	5	5	5	5

Upstream Circuit breaker	Rating (A)	Icu (kA) 415 V	Switch disconnector conditionnal short-circuit current and related making capacity:												
iC40	**≤ 25**	10	T	T	T	T	T	T	T	T	T	T	T	T	T
B, C, D curves	**32 to 40**	10		T	T		T	T	T	T		T	T	T	T
iC40N	**≤ 25**	10	T	T	T	T	T	T	T	T	T	T	T	T	T
B, C, D curves	**32 to 40**	10		T	T		T	T	T	T		T	T	T	T
iC60N	**≤ 25**	10	T	T	T	T	T	T	T	T	T	T	T	T	T
B, C, D curves	**32**	10		T	T		T	T	T	T		T	T	T	T
	40	10		T	T		T	T	T	T		T	T	T	T
	50 to 63	10			T			T	T	T			T	T	T
iC60H	**≤ 25**	15	T	T	T	T	T	T	T	T	T	T	T	T	T
B, C, D curves	**32**	15		T	T		T	T	T	T		T	T	T	T
	40	15		T	T		T	T	T	T		T	T	T	T
	50 to 63	15			T			T	T	T			T	T	T
iC60L	**≤ 25**	25	T	T	T	T	T	T	T	T	T	T	T	T	T
B, C, D, K, Z curves	**32**	20		T	T		T	T	T	T		T	T	T	T
	40	20		T	T		T	T	T	T		T	T	T	T
	50 to 63	15			T			T	T	T			T	T	T
C120N	**63**	10			T			T	T	T			7/11	7/11	7/11
B, C, D curves	**80**	10							10/17	10/17				7/11	7/11
	100	10								10/17				5/8	5/8
	125	10													5/8
C120H	**63**	20			T			T	T	T			7/11	7/11	7/11
B, C, D curves	**80**	20			10/17				10/17	10/17				7/11	7/11
	100	20								10/17				5/8	5/8
	125	20													5/8
NG125N	**≤ 40**	25	16/27	16/27	16/27		16/27	16/27	16/27	16/27		15/25	15/25	15/25	15/25
B, C, D curves	**50 to 63**	25			16/27			16/27	16/27	16/27			15/25	15/25	15/25
	80	25							10/17	10/17				10/17	10/17
	100	25								10/17				10/17	10/17
	125	25													10/17
NG125H	**≤ 40**	36	16/27	16/27	16/27		16/27	16/27	16/27	16/27		15/25	15/25	15/25	15/25
C curves	**50 to 63**	36			16/27			16/27	16/27	16/27			15/25	15/25	15/25
	80	36							10/17	10/17				10/17	10/17
NG125L	**≤ 40**	50	16/27	16/27	16/27		16/27	16/27	16/27	16/27		15/25	15/25	15/25	15/25
B, C, D curves	**50 to 63**	50			16/27			16/27	16/27	16/27			15/25	15/25	15/25
	80	50			10/17				10/17	10/17				10/17	10/17

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

16/27 : Switch-disconnector is protected up to 16 kA rms / 27 kA peak

: Protection of the switch-disconnector is not ensured.

[1] Include Acti9 iID AC type, A type, ASI type and B-SI type.
[2] For Acti9 iID B type EV, please contact Schneider Electric.

Switch-disconnector - Circuit breaker coordination

Upstream: Com**Pact** NSXm, NSX100, NSX160
Downstream: Acti9 iID40, iID, RCCB ID B type

Ue: 380-415 V AC

Downstream	Switch-disconnector	iID40			iID [1] [2]					RCCB ID				
	Rating (A)	25	40	63	25	40	63	80	100	25	40	63	100	125
	Icw (A)	500	800	1260	500	800	1260	1200	1500	500	500	630	800	1250
	Icm (kA)	5	5	5	5	5	5	5	5	5	5	5	5	5

Upstream Circuit breaker	Rating (A)	Icu (kA) 415 V	Switch disconnector conditionnal short-circuit current and related making capacity:												
NSXm Icu 415V: E/B/F/N/H 16/25/36/50/70	≤ 25	-	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65
	32	-		5/7.65	5/7.65		5/7.65	5/7.65	5/7.65	5/7.65		5/7.65	5/7.65	5/7.65	5/7.65
	40	-		5/7.65	5/7.65		5/7.65	5/7.65	5/7.65	5/7.65		5/7.65	5/7.65	5/7.65	5/7.65
	50	-			5/7.65			5/7.65	5/7.65	5/7.65			5/7.65	5/7.65	5/7.65
	63	-			5/7.65			5/7.65	5/7.65	5/7.65			5/7.65	5/7.65	5/7.65
	80	-							5/7.65	5/7.65				5/7.65	5/7.65
	100	-								5/7.65					5/7.65
	125	-													
	160	-													
NSX100 Icu 415V: B/F/N/H/S/L 25/36/50/70/100/150	≤ 25	-	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65	5/7.65
	32	-		5/7.65	5/7.65		5/7.65	5/7.65	5/7.65	5/7.65		5/7.65	5/7.65	5/7.65	5/7.65
	40	-		5/7.65	5/7.65		5/7.65	5/7.65	5/7.65	5/7.65		5/7.65	5/7.65	5/7.65	5/7.65
	50	-			5/7.65			5/7.65	5/7.65	5/7.65			5/7.65	5/7.65	5/7.65
	63	-			5/7.65			5/7.65	5/7.65	5/7.65			5/7.65	5/7.65	5/7.65
	80	-							5/7.65	5/7.65				5/7.65	5/7.65
	100	-								5/7.65					5/7.65
NSX160 B/F/N/H/S/L	125	-													5/7.65
	160	-													

5/7.65 : Switch-disconnector is protected up to 5 kA rms / 7.65 kA peak

: Protection of the switch-disconnector is not ensured.

[1] Include Acti9 iID AC type, A type, ASI type and B-SI type.
[2] For Acti9 iID B type EV, please contact Schneider Electric.

Switch-disconnector - Circuit breaker coordination

Upstream: Acti9 iC40, iC60, C120, NG125
Downstream: Acti9 iSW-NA, iSW, NG125NA

Ue: 380-415 V AC

Downstream	Switch-disconnector	iSW-NA				iSW				NG125NA			
	Rating (A)	40	63	80	100	40	63	100	125	63	80	100	125
	Icw (A)	800	1260	1600	2000	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Icm (kÂ)	5	5	5	5	5	5	5	5	2	2	2	2

Upstream Circuit breaker	Rating (A)	Icu (kA) 415 V	Switch disconnector conditionnal short-circuit current and related making capacity:											
iC40	**≤ 25**	10	T	T	T	T	T	T	T	T	T	T	T	T
B, C, D curves	**32 to 40**	10	T	T	T	T	T	T	T	T	T	T	T	T
iC40N	**≤ 25**	10	T	T	T	T	T	T	T	T	T	T	T	T
B, C, D curves	**32 to 40**	10	T	T	T	T	T	T	T	T	T	T	T	T
iC60N/H/L	**≤ 25**	10/15/25	T	T	T	T	T	T	T	T	T	T	T	T
All curves	**32**	10/15/20	T	T	T	T	T	T	T	T	T	T	T	T
	40	10/15/20	T	T	T	T	T	T	T	T	T	T	T	T
	50	10/15/15		T	T	T		T	T	T	T	T	T	T
	63	10/15/15		T	T	T		T	T	T	T	T	T	T
C120N	**63**	10		10/17	10/17	10/17		10/17	10/17	10/17	T	T	T	T
B, C, D curves	**80**	10			10/17	10/17			10/17	10/17		T	T	T
	100	10				10/17			10/17	10/17			T	T
	125	10								10/17				T
C120H	**63**	20		15/25	15/25	15/25		15/25	15/25	15/25	T	T	T	T
B, C, D curves	**80**	20			10/17	10/17			10/17	10/17		T	T	T
	100	20				10/17			10/17	10/17			T	T
	125	20								10/17				
NG125N	**≤ 40**	25	16/27	16/27	16/27	16/27	16/27	16/27	16/27	16/27	T	T	T	T
B, C, D curves	**50 to 63**	25		16/27	16/27	16/27		16/27	16/27	16/27	T	T	T	T
	80	25			10/17	10/17			10/17	10/17		T	T	T
	100	25				10/17			10/17	10/17			T	T
	125	25								10/17				T
NG125H	**≤ 40**	36	16/27	16/27	16/27	16/27	16/27	16/27	16/27	16/27	T	T	T	T
C curves	**50 to 63**	36		16/27	16/27	16/27		16/27	16/27	16/27	T	T	T	T
	63	36			10/17	10/17			16/27	16/27	T	T	T	T
	80	36			10/17	10/17			10/17	10/17		T	T	T
NG125L	**≤ 40**	50	20/40	20/40	20/40	20/40	20/40	20/40	20/40	20/40	T	T	T	T
B, C, D curves	**50**	50		16/27	16/27	16/27		16/27	16/27	16/27	T	T	T	T
	63	50		16/27	16/27	16/27		16/27	16/27	16/27	T	T	T	T
	80	50			10/17	10/17			10/17	10/17		T	T	T

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

116/27 : Switch-disconnector is protected up to 16 kA rms / 27 kA peak

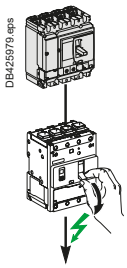
: Protection of the switch-disconnector is not ensured

[1] Include Acti9 iID AC type, A type, ASI type and B-SI type.
[2] For Acti9 iID B type EV, please contact Schneider Electric.

Switch-disconnector - Circuit breaker coordination

Upstream: iC40/iDPN, iC60, C120, NG125, ComPact NSXm, NSX100, NSX160

Downstream: iSW, NG125NA, ComPact NSXm NA



Ue ⩽ 415 V AC

Downstream	Switch-disconnector	iSW				NG125NA				NSXm NA		
	Rating (A)	40	63	100	125	63	80	100	125	50	100	160
	Icw (kA)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.9	1.5	1.5
	Icm (kÂ)	5	5	5	5	2	2	2	2	1.38	2.13	2.13

Upstream Circuit breaker	Rating or setting	Icu (kA) 415 V	Switch-disconnector conditionnal short-circuit current and related making capacity										
iC40/iDPN	**⩽ 25**	6	T	T	T	T	T	T	T	T	T	T	T
All curves	**32**	6	T	T	T	T	T	T	T	T	T	T	T
	40	6	T	T	T	T	T	T	T	T	T	T	T
iC40N/iDPNN	**⩽ 25**	10	T	T	T	T	T	T	T	T	T	T	T
All curves	**32**	10	T	T	T	T	T	T	T	T	T	T	T
	40	10	T	T	T	T	T	T	T	T		T	T
iC60N/H/L	**⩽ 25**	10/15/25	T	T	T	T	T	T	T	T	T	T	T
All Curves	**32-40**	10/15/20	T	T	T	T	T	T	T	T	T	T	T
	50	10/15/15		T	T	T	T	T	T	T	T	T	T
	63	10/15/15		T	T	T	T	T	T	T		T	T
C120N/H	**63**	10/15		T	T	T		T	T	T		T	T
All curves	**80**	10/15			10/17	10/17			T	T		T	T
	100	10/15				10/17			T	T		T	T
	125	10/15				10/17				T			T
NG125N	**⩽ 40**	25	16/27	16/27	16/27	16/27	T	T	T	T	T	T	T
B-C-D Curves	**50**	25		16/27	16/27	16/27		T	T	T	T	T	T
	63	25		16/27	16/27	16/27		T	T	T		T	T
	80	25			10/17	10/17			T	T		T	T
	100	25				10/17			T	T		T	T
	125	25				10/17				T			T
NG125H	**⩽ 40**	36	16/27	16/27	16/27	16/27	T	T	T	T	T	T	T
	50	36		16/27	16/27	16/27	T	T	T	T	T	T	T
C Curve	**63**	36		16/27	16/27	16/27	T	T	T	T		T	T
	80	36			10/17	10/17		T	T	T		T	T
NG125L	**⩽ 40**	50	20/40	20/40	20/40	20/40	T	T	T	T	T	T	T
	50	50		16/27	16/27	16/27		T	T	T	T	T	T
B-C-D Curves	**63**	50		16/27	16/27	16/27			T	T		T	T
	80	50			10/17	10/17			T	T		T	T
NSXm	**⩽ 40**	*	5/7,65	5/7,65	5/7,65	5/7,65	T	T	T	T	T	T	T
	50	*		5/7,65	5/7,65	5/7,65	T	T	T	T	T	T	T
Icu 415V:	**63**	*		5/7,65	5/7,65	5/7,65	T	T	T	T		T	T
E/B/F/N/H	**80**	*			5/7,65	5/7,65		T	T	T		T	T
16/25/36/50/70	**100**	*			5/7,65	5/7,65			T	T		T	T
	125	*				5/7,65				T			T
	160	*				5/7,65				T			T
NSX100	**⩽ 40**	*	5/7,65	5/7,65	5/7,65	5/7,65	T	T	T	T	T	T	T
Icu 415V:	**50**	*		5/7,65	5/7,65	5/7,65	T	T	T	T	T	T	T
B/F	**63**	*		5/7,65	5/7,65	5/7,65	T	T	T	T		T	T
25/36	**80**	*			5/7,65	5/7,65		T	T	T		T	T
	100	*			5/7,65	5/7,65			T	T			T
NSX160	**125**	*				5/7,65				T			T
B/F	**160**	*				5/7,65				T			T
NSX100	**⩽ 40**	*	5/7,65	5/7,65	5/7,65	5/7,65	36/75	36/75	36/75	36/75	T	T	T
Icu 415V:	**50**	*		5/7,65	5/7,65	5/7,65	36/75	36/75	36/75	36/75	T	T	T
N/H	**63**	*		5/7,65	5/7,65	5/7,65	36/75	36/75	36/75	36/75		T	T
50/70	**80**	*			5/7,65	5/7,65		36/75	36/75	36/75		T	T
	100	*			5/7,65	5/7,65			36/75	36/75			T
NSX160	**125**	*				5/7,65				36/75			T
N/H	**160**	*				5/7,65				36/75			T
NSX100	**⩽ 40**	*	5/7,65	5/7,65	5/7,65	5/7,65	36/75	36/75	36/75	36/75	70/150	70/150	70/150
Icu 415V:	**50**	*		5/7,65	5/7,65	5/7,65	36/75	36/75	36/75	36/75	70/150	70/150	70/150
S/L	**63**	*		5/7,65	5/7,65	5/7,65	36/75	36/75	36/75	36/75		70/150	70/150
100/150	**80**	*			5/7,65	5/7,65		36/75	36/75	36/75		70/150	70/150
	100	*			5/7,65	5/7,65			36/75	36/75			70/150
NSX160	**125**	*				5/7,65				36/75			70/150
S/L	**160**	*				5/7,65				36/75			70/150

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

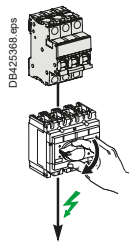
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: iC60, C120, NG125
Downstream: Com**Pact** INS40 to INS250, INV100 to INV250



Ue ⩽ 415 V AC

Downstream	Switch-disconnector	INS40	INS63	INS80	INS100	INS 250-100 INV100	INS125	INS160	INS 250-160 INV160	INS 250-200 INV200	INS250 INV250
	Ith (A) 60°	40	63	80	100	100	125	160	160	250	250
	Icw (kA)	3	3	3	5.5	8.5	5.5	5.5	8.5	8.5	8.5
	Icm (kÂ)	15	15	15	20	30	20	20	30	30	30

Upstream Circuit breaker	Rating	Icu (kA) 415 V	Switch-disconnector conditionnal short-circuit current and related making capacity									
iC60N B-C-D Curves	⩽ 32	10	T	T	T	T	T	T	T	T	T	T
	40	10	T	T	T	T	T	T	T	T	T	T
	50	10		T	T	T	T	T	T	T	T	T
	63	10		T	T	T	T	T	T	T	T	T
iC60H B-C-D Curves	⩽ 32	15	T	T	T	T	T	T	T	T	T	T
	40	15	T	T	T	T	T	T	T	T	T	T
	50	15		T	T	T	T	T	T	T	T	T
	63	15		T	T	T	T	T	T	T	T	T
iC60L B-C-D-K-Z Curves	⩽ 25	25	T	T	T	T	T	T	T	T	T	T
	32	20	T	T	T	T	T	T	T	T	T	T
	40	20		T	T	T	T	T	T	T	T	T
	50	15		T	T	T	T	T	T	T	T	T
	63	15		T	T	T	T	T	T	T	T	T
C120N	63	10		T	T	T	T	T	T	T	T	T
B-C-D Curves	80	10			T	T	T	T	T	T	T	T
1P 240V	100	10				T	T	T	T	T	T	T
2, 3, 4P 415 V	125	10						T	T	T	T	T
C120H	63	15		T	T	T	T	T	T	T	T	T
B-C-D Curves	80	15			T	T	T	T	T	T	T	T
1P 240V	100	15				T	T	T	T	T	T	T
2, 3, 4P 415 V	125	15						T	T	T	T	T
NG125N	⩽ 40	25	T	T	T	T	T	T	T	T	T	T
B-C-D Curves	63	25		T	T	T	T	T	T	T	T	T
	80	25			T	T	T	T	T	T	T	T
	100	25				T	T	T	T	T	T	T
	125	25						T	T	T	T	T
NG125H C Curves	⩽ 40	36	T	T	T	T	T	T	T	T	T	T
	63	36		T	T	T	T	T	T	T	T	T
	80	36			T	T	T	T	T	T	T	T
	100	36				T	T	T	T	T	T	T
	125	36						T	T	T	T	T
NG125L B-C-D Curves	⩽ 40	50	T	T	T	T	T	T	T	T	T	T
	63	50		T	T	T	T	T	T	T	T	T
	80	50			T	T	T	T	T	T	T	T

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

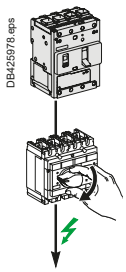
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Com**Pact** NSXm
Downstream: Com**Pact** INS40 to 250, Com**Pact** INV100 to 250



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	INS40	INS63	INS80	INS100	INS250-100 INV100	INS125	INS160	INS250-160 INV160	INS250-200 INV200	INS250 INV250
	Ith A 60°	40	63	80	100	100	125	160	160	200	200
	Icw (kA)	3	3	3	5.5	8.5	5.5	5.5	8.5	8.5	8.5
	Icm (kÂ)	15	15	15	20	30	20	20	30	30	30

Upstream Circuit breaker:	Icu (kA) 415 V	440 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity									
NSXm E	16	10	Ir ⩽ 40	T	T	T	T	T	T	T	T	T	T
TMD, MicroLogic			Ir ⩽ 50		T	T	T	T	T	T	T	T	T
			Ir ⩽ 63		T	T	T	T	T	T	T	T	T
			Ir ⩽ 80			T	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
NSXm B	25	20	Ir ⩽ 40	T	T	T	T	T	T	T	T	T	T
TMD, MicroLogic			Ir ⩽ 50		T	T	T	T	T	T	T	T	T
			Ir ⩽ 63		T	T	T	T	T	T	T	T	T
			Ir ⩽ 80			T	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
NSXm F	36	35	Ir ⩽ 40	T	T	T	T	T	T	T	T	T	T
TMD, MicroLogic			Ir ⩽ 50		T	T	T	T	T	T	T	T	T
			Ir ⩽ 63		T	T	T	T	T	T	T	T	T
			Ir ⩽ 80			T	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
NSXm N	50	50	Ir ⩽ 40	36/75	36/75	36/75	T	T	T	T	T	T	T
TMD, MicroLogic			Ir ⩽ 50		36/75	36/75	T	T	T	T	T	T	T
			Ir ⩽ 63		36/75	36/75	T	T	T	T	T	T	T
			Ir ⩽ 80			36/75	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
NSXm H	70	65	Ir ⩽ 40	36/75	36/75	36/75	T	T	T	T	T	T	T
TMD, MicroLogic			Ir ⩽ 50		36/75	36/75	T	T	T	T	T	T	T
			Ir ⩽ 63		36/75	36/75	T	T	T	T	T	T	T
			Ir ⩽ 80			36/75	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

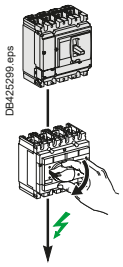
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: ComPact NSX100 to 250
Downstream: ComPact INS40 to INS250, INV100 to INV250



Ue ⩽ 440 V AC

Downstream	Switch-disconector	INS40	INS63	INS80	INS100	INS250-100 INV100	INS125	INS160	INS250-160 INV160	INS250-200 INV200	INS250 INV250
	Ith A 60°	40	63	80	100	100	125	160	160	200	250
	Icw (kA)	3	3	3	5.5	8.5	5.5	5.5	8.5	8.5	8.5
	Icm (kÂ)	15	15	15	20	30	20	20	30	30	30

Upstream circuit breaker	Icu (kA) 415V	440V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity									
NSX100B	25	20	Ir ⩽ 40	T	T	T	T	T	T	T	T	T	T
NSX160B			Ir ⩽ 63		T	T	T	T	T	T	T	T	T
TMD / TMG /			Ir ⩽ 80			T	T	T	T	T	T	T	T
MicroLogic			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
NSX250B	25	20	Ir ⩽ 40	T	T	T	T	T	T	T	T	T	T
TMD / TMG /			Ir ⩽ 63		T	T	T	T	T	T	T	T	T
MicroLogic			Ir ⩽ 80			T	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
			Ir ⩽ 200									T	T
			Ir ⩽ 250										T
NSX100F	36	35	Ir ⩽ 40	36/75	36/75	36/75	T	T	T	T	T	T	T
NSX160F			Ir ⩽ 63		36/75	36/75	T	T	T	T	T	T	T
TMD / TMG /			Ir ⩽ 80			36/75	T	T	T	T	T	T	T
MicroLogic			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
NSX250F	36	35	Ir ⩽ 40	25/52	25/52	25/52	T	T	T	T	T	T	T
TMD / TMG /			Ir ⩽ 63		25/52	25/52	T	T	T	T	T	T	T
MicroLogic			Ir ⩽ 80			25/52	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
			Ir ⩽ 200									T	T
			Ir ⩽ 250										T
NSX100N/H	50/70	50/65	Ir ⩽ 40	25/52	25/52	25/52	T	T	T	T	T	T	T
NSX160N/H			Ir ⩽ 63		25/52	25/52	T	T	T	T	T	T	T
TMD / TMG /			Ir ⩽ 80			25/52	T	T	T	T	T	T	T
MicroLogic			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
NSX250N/H	50/70	50/65	Ir ⩽ 40	25/52	25/52	25/52	T	T	T	T	T	T	T
TMD / TMG /			Ir ⩽ 63		25/52	25/52	T	T	T	T	T	T	T
MicroLogic			Ir ⩽ 80			25/52	T	T	T	T	T	T	T
			Ir ⩽ 100				T	T	T	T	T	T	T
			Ir ⩽ 125						T	T	T	T	T
			Ir ⩽ 160							T	T	T	T
			Ir ⩽ 200									T	T
			Ir ⩽ 250										T
NSX100S/L/R	100/	90/	Ir ⩽ 40	36/75	36/75	36/75	65/143	T	65/143	65/143	T	T	T
TMD / TMG /	150/	130/	Ir ⩽ 63		36/75	36/75	65/143	T	65/143	65/143	T	T	T
MicroLogic	200	200	Ir ⩽ 80			36/75	65/143	T	65/143	65/143	T	T	T
			Ir ⩽ 100				65/143	T	65/143	65/143	T	T	T
NSX160S/L	100/	90/	Ir ⩽ 40	36/75	36/75	36/75	65/143	T	65/143	65/143	T	T	T
TMD / TMG /	150	130	Ir ⩽ 63		36/75	36/75	65/143	T	65/143	65/143	T	T	T
MicroLogic			Ir ⩽ 80			36/75	65/143	T	65/143	65/143	T	T	T
			Ir ⩽ 100				65/143	T	65/143	65/143	T	T	T
			Ir ⩽ 125						65/143	65/143	T	T	T
			Ir ⩽ 160							65/143	T	T	T
NSX250S/L/R	100/	90/	Ir ⩽ 40	25/52	25/52	25/52	65/143	T	65/143	65/143	T	T	T
TMD / TMG /	150/	130/	Ir ⩽ 63		25/52	25/52	65/143	T	65/143	65/143	T	T	T
MicroLogic	200	200	Ir ⩽ 80			25/52	65/143	T	65/143	65/143	T	T	T
			Ir ⩽ 100				65/143	T	65/143	65/143	T	T	T
			Ir ⩽ 125						65/143	65/143	T	T	T
			Ir ⩽ 160							65/143	T	T	T
			Ir ⩽ 200									T	T
			Ir ⩽ 250										T

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

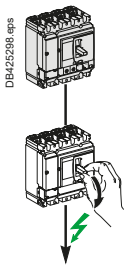
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: ComPact NSX100 to 630
Downstream: ComPact NSX100 to 630 NA



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	NSX100NA	NSX160NA	NSX250NA	NSX400NA	NSX630NA
	Ith A 60°	100	160	250	400	630
	Icw (kA)	1.8	2.5	3.5	5	6
	Icm (kÂ)	2.6	3.6	4.9	7.1	8.5

Upstream Circuit breaker	Icu (kA) 415 V	440 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity				
NSX100B	25	20	Ir ⩽ 100	T	T	T	T	T
NSX160B			Ir ⩽ 160		T	T	T	T
NSX250B			Ir ⩽ 200			T	T	T
TMD / TMG / MicroLogic			Ir ⩽ 250			T	T	T
NSX100F	36	35	Ir ⩽ 100	T	T	T	T	T
NSX160F			Ir ⩽ 160		T	T	T	T
NSX250F			Ir ⩽ 200			T	T	T
TMD / TMG / MicroLogic			Ir ⩽ 250			T	T	T
NSX400F	36	30	Ir = 100 [1]	T	T	T	T	T
NSX630F			Ir ⩽ 160		T	T	T	T
MicroLogic			Ir ⩽ 250			T	T	T
			Ir ⩽ 400				T	T
			Ir ⩽ 630					T
NSX100N	50	50	Ir ⩽ 100	T	T	T	T	T
NSX160N			Ir ⩽ 160		T	T	T	T
NSX250N			Ir ⩽ 200			T	T	T
TMD / TMG / MicroLogic			Ir ⩽ 250			T	T	T
NSX400N	50	42	Ir = 100 [1]	T	T	T	T	T
NSX630N			Ir ⩽ 160		T	T	T	T
MicroLogic			Ir ⩽ 250			T	T	T
			Ir ⩽ 400				T	T
			Ir ⩽ 630					T
NSX100H	70	65	Ir ⩽ 100	T	T	T	T	T
NSX160H			Ir ⩽ 160		T	T	T	T
NSX250H			Ir ⩽ 200			T	T	T
TMD / TMG / MicroLogic			Ir ⩽ 250			T	T	T
NSX400H	70	65	Ir = 100 [1]	T	T	T	T	T
NSX630H			Ir ⩽ 160		T	T	T	T
MicroLogic			Ir ⩽ 250			T	T	T
			Ir ⩽ 400				T	T
			Ir ⩽ 630					T
NSX100S	100	90	Ir ⩽ 100	T	T	T	T	T
NSX160S			Ir ⩽ 160		T	T	T	T
NSX250S			Ir ⩽ 200			T	T	T
TMD / TMG / MicroLogic			Ir ⩽ 250			T	T	T
NSX400S	100	90	Ir = 100 [1]	T	T	T	T	T
NSX630S			Ir ⩽ 160		T	T	T	T
MicroLogic			Ir ⩽ 250			T	T	T
			Ir ⩽ 400				T	T
			Ir ⩽ 630					T
NSX100L	150	130	Ir ⩽ 100	T	T	T	T	T
NSX160L			Ir ⩽ 160		T	T	T	T
NSX250L			Ir ⩽ 200			T	T	T
TMD / TMG / MicroLogic			Ir ⩽ 250			T	T	T
NSX400L	150	130	Ir = 100 [1]	T	T	T	T	T
NSX630L			Ir ⩽ 160		T	T	T	T
MicroLogic			Ir ⩽ 250			T	T	T
			Ir ⩽ 400				T	T
			Ir ⩽ 630					T
NSX100R	200	200	Ir ⩽ 100	T	T	T	T	T
NSX250R			Ir ⩽ 160		T	T	T	T
TMD / TMG / MicroLogic			Ir ⩽ 200			T	T	T
			Ir ⩽ 250			T	T	T
NSX400R	200	200	Ir = 100 [1]	T	T	T	T	T
NSX630R			Ir ⩽ 160		T	T	T	T
MicroLogic			Ir ⩽ 250			T	T	T
			Ir ⩽ 400				T	T
			Ir ⩽ 630					T

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

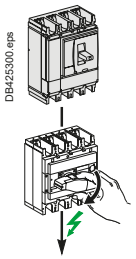
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

: Protection of the switch-disconnector is not ensured

[1] NSX400 with MicroLogic 250 A can be set down to 100 A.

Switch-disconnector - Circuit breaker coordination

Upstream: ComPact NSX400 to 630
Downstream: ComPact INS/INV100 to 630



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	INS100	INS250-100 INV100	INS125	INS160	INS250-160 INV160	INS250-200 INV200	INS250 INV250	INS320 INV320	INS400 INV400	INS500 INV500	INS630 INV630	INS630b INV630b
	Ith A 60°	100	100	125	160	160	200	250	320	400	500	630	630
	Icw (kA)	5.5	8.5	5.5	5.5	8.5	8.5	8.5	20	20	20	20	35
	Icm (kÂ)	20	30	20	20	30	30	30	50	50	50	50	75

Upstream Circuit breaker	Icu (kA) 415 V	Icu (kA) 440 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity												
NSX400F	36	30	Ir = 100 [1]	16/32	T	16/32	16/32	T	T	T	T	T	T	T	T	T
NSX630F			Ir ⩽ 160				16/32	T	T	T	T	T	T	T	T	T
MicroLogic			Ir ⩽ 200						T	T	T	T	T	T	T	T
			Ir ⩽ 250							T	T	T	T	T	T	T
			Ir ⩽ 320								T	T	T	T	T	T
			Ir ⩽ 400									T	T	T	T	T
			Ir ⩽ 500										T	T	T	T
			Ir ⩽ 630											T	T	T
NSX400N	50	42	Ir = 100 [1]	16/32	36/75	16/32	16/32	36/75	36/75	36/75	T	T	T	T	T	T
NSX630N			Ir ⩽ 160				16/32	36/75	36/75	36/75	T	T	T	T	T	T
MicroLogic			Ir ⩽ 200						36/75	36/75	T	T	T	T	T	T
			Ir ⩽ 250							36/75	T	T	T	T	T	T
			Ir ⩽ 320								T	T	T	T	T	T
			Ir ⩽ 400									T	T	T	T	T
			Ir ⩽ 500										T	T	T	T
			Ir ⩽ 630											T	T	T
NSX400H	70	65	Ir = 100 [1]	16/32	36/75	16/32	16/32	36/75	36/75	36/75	T	T	T	T	T	T
NSX630H			Ir ⩽ 160				16/32	36/75	36/75	36/75	T	T	T	T	T	T
MicroLogic			Ir ⩽ 200						36/75	36/75	T	T	T	T	T	T
			Ir ⩽ 250							36/75	T	T	T	T	T	T
			Ir ⩽ 320								T	T	T	T	T	T
			Ir ⩽ 400									T	T	T	T	T
			Ir ⩽ 500										T	T	T	T
			Ir ⩽ 630											T	T	T
NSX400S	100	90	Ir = 100 [1]	16/32	36/75	16/32	16/32	36/75	36/75	36/75	T	T	T	T	T	T
NSX630S			Ir ⩽ 160				16/32	36/75	36/75	36/75	T	T	T	T	T	T
MicroLogic			Ir ⩽ 200						36/75	36/75	T	T	T	T	T	T
			Ir ⩽ 250							36/75	T	T	T	T	T	T
			Ir ⩽ 320								T	T	T	T	T	T
			Ir ⩽ 400									T	T	T	T	T
			Ir ⩽ 500										T	T	T	T
			Ir ⩽ 630											T	T	T
NSX400L	150	130	Ir = 100 [1]	16/32	36/75	16/32	16/32	36/75	36/75	36/75	T	T	T	T	T	T
NSX630L			Ir ⩽ 160				16/32	36/75	36/75	36/75	T	T	T	T	T	T
MicroLogic			Ir ⩽ 200						36/75	36/75	T	T	T	T	T	T
			Ir ⩽ 250							36/75	T	T	T	T	T	T
			Ir ⩽ 320								T	T	T	T	T	T
			Ir ⩽ 400									T	T	T	T	T
			Ir ⩽ 500										T	T	T	T
			Ir ⩽ 630											T	T	T
NSX400R	200	200	Ir = 100 [1]	16/32	36/75	16/32	16/32	36/75	36/75	36/75	150/330	150/330	150/330	150/330	T	
NSX630R			Ir ⩽ 160				16/32	36/75	36/75	36/75	150/330	150/330	150/330	150/330	T	
MicroLogic			Ir ⩽ 200						36/75	36/75	150/330	150/330	150/330	150/330	T	
			Ir ⩽ 250							36/75	150/330	150/330	150/330	150/330	T	
			Ir ⩽ 320								150/330	150/330	150/330	150/330	T	
			Ir ⩽ 400									150/330	150/330	150/330	T	
			Ir ⩽ 500										150/330	150/330	T	
			Ir ⩽ 630											150/330	T	

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

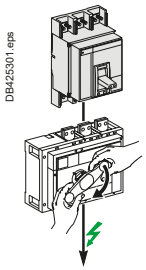
36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

[1] NSX400 with MicroLogic 250 A can be set down to 100 A.

Switch-disconnector - Circuit breaker coordination

Upstream: Com**Pact** NS630b to 3200, Master**Pact** MTZ1
Downstream: Com**Pact** INS/INV500 to 2500



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	INS500 INV500	INS630 INV630	INS630b INV630b	INS800 INV800	INS1000 INV1000	INS1250 INV1250	INS1600 INV1600	INS2000 INV2000	INS2500 INV2500
	Ith A 60°	500	630	630	800	1000	1250	1600	2000	2500
	Icw (kA)	20	20	35	35	35	35	35	50	50
	Icm (kÂ)	50	50	75	75	75	75	75	105	105

Upstream Circuit breaker	Icu (kA)		Setting	Switch-disconnector conditionnal short-circuit current and related making capacity								
	415 V	440 V	Ir									
NS630bN	50	50	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
NS800N			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
NS1000N			Ir ⩽ 800				35/75	35/75	35/75	35/75	T	T
NS1250N			Ir ⩽ 1000					35/75	35/75	35/75	T	T
NS1600N			Ir ⩽ 1250						35/75	35/75	T	T
			Ir ⩽ 1600							35/75	T	T
NS630bH	70	65	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
NS800H			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
NS1000H			Ir ⩽ 800				35/75	35/75	35/75	35/75	50/105	50/105
NS1250H			Ir ⩽ 1000					35/75	35/75	35/75	50/105	50/105
NS1600H			Ir ⩽ 1250						35/75	35/75	50/105	50/105
			Ir ⩽ 1600							35/75	50/105	50/105
NS630bL	150	130	Ir ⩽ 500	50/105	50/105	T	T	T	T	T	T	T
NS800L			Ir ⩽ 630		50/105	T	T	T	T	T	T	T
NS1000L			Ir ⩽ 800				T	T	T	T	T	T
			Ir ⩽ 1000					T	T	T	T	T
NS630bLB	200	200	Ir ⩽ 500	90/200	90/200	T	T	T	T	T	T	T
NS800LB			Ir ⩽ 630		90/200	T	T	T	T	T	T	T
			Ir ⩽ 800				T	T	T	T	T	T
NS1600bN	70	65	Ir ⩽ 1250						35/75	35/75	50/105	50/105
NS2000N			Ir ⩽ 1600							35/75	50/105	50/105
NS2500N			Ir ⩽ 2000								50/105	50/105
NS3200N			Ir ⩽ 2500									50/105
NS1600bH	85	85	Ir ⩽ 1250						35/75	35/75	50/105	50/105
NS2000H			Ir ⩽ 1600							35/75	50/105	50/105
NS2500H			Ir ⩽ 2000								50/105	50/105
NS3200H			Ir ⩽ 2500									50/105
MTZ1 06H1	42	42	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
MTZ1 08H1			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
MTZ1 10H1			Ir ⩽ 800				35/75	35/75	35/75	35/75	T	T
MTZ1 12H1			Ir ⩽ 1000					35/75	35/75	35/75	T	T
MTZ1 16H1			Ir ⩽ 1250						35/75	35/75	T	T
			Ir ⩽ 1600							35/75	T	T
MTZ1 06H2	50	50	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
MTZ1 08H2			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
MTZ1 10H2			Ir ⩽ 800				35/75	35/75	35/75	35/75	T	T
MTZ1 12H2			Ir ⩽ 1000					35/75	35/75	35/75	T	T
MTZ1 16H2			Ir ⩽ 1250						35/75	35/75	T	T
			Ir ⩽ 1600							35/75	T	T
MTZ1 06H3	66	66	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
MTZ1 08H3			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
MTZ1 10H3			Ir ⩽ 800				35/75	35/75	35/75	35/75	50/105	50/105
MTZ1 12H3			Ir ⩽ 1000					35/75	35/75	35/75	50/105	50/105
MTZ1 16H3			Ir ⩽ 1250						35/75	35/75	50/105	50/105
			Ir ⩽ 1600							35/75	50/105	50/105
MTZ1 06L1	150	130	Ir ⩽ 500	50/105	50/105	100/220	100/220	100/220	100/220	100/220	100/220	100/220
MTZ1 08L1			Ir ⩽ 630		50/105	100/220	100/220	100/220	100/220	100/220	100/220	100/220
MTZ1 10L1			Ir ⩽ 800				100/220	100/220	100/220	100/220	100/220	100/220
			Ir ⩽ 1000					100/220	100/220	100/220	100/220	100/220

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

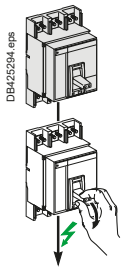
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: ComPact NS630b to 3200, MasterPact MTZ1
Downstream: ComPact NS630b to 3200 NA



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	NS630b NA	NS800 NA	NS1000 NA	NS1250 NA	NS1600 NA	NS1600b NA	NS2000 NA	NS2500 NA	NS3200 NA
	Ith A 60°	630	800	1000	1250	1600	1600	2000	2500	3200
	Icw (kA)	25 (0.5s)	25 (0.5s)	25 (0.5s)	25 (0.5s)	25 (0.5s)	32 (3s)	32 (3s)	32 (3s)	32 (3s)
	Icm (kÂ)	52	52	52	52	52	135	135	135	135

Upstream Circuit breaker	Icu (kA) 415 V	Icu (kA) 440 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity								
NS630bN	50	50	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
NS800N			Ir ⩽ 800		T	T	T	T	T	T	T	T
NS1000N			Ir ⩽ 1000			T	T	T	T	T	T	T
NS1250N			Ir ⩽ 1250				T	T	T	T	T	T
NS1600N			Ir ⩽ 1600					T	T	T	T	T
NS630bH	70	65	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
NS800H			Ir ⩽ 800		T	T	T	T	T	T	T	T
NS1000H			Ir ⩽ 1000			T	T	T	T	T	T	T
NS1250H			Ir ⩽ 1250				T	T	T	T	T	T
NS1600H			Ir ⩽ 1600					T	T	T	T	T
NS630bL	150	130	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
NS800L			Ir ⩽ 800		T	T	T	T	T	T	T	T
NS1000L			Ir ⩽ 1000			T	T	T	T	T	T	T
NS630bLB	200	200	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
NS800LB			Ir ⩽ 800		T	T	T	T	T	T	T	T
NS1600bN	70	65	Ir ⩽ 1600						T	T	T	T
NS2000N			Ir ⩽ 2000							T	T	T
NS2500N			Ir ⩽ 2500								T	T
NS3200N			Ir ⩽ 3200									T
NS1600bH	85	85	Ir ⩽ 1600						T	T	T	T
NS2000H			Ir ⩽ 2000							T	T	T
NS2500H			Ir ⩽ 2500								T	T
NS3200H			Ir ⩽ 3200									T
MTZ1 06H1	42	42	Ir ⩽ 630	25/52	25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 08H1			Ir ⩽ 800		25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 10H1			Ir ⩽ 1000			25/52	25/52	25/52	T	T	T	T
MTZ1 12H1			Ir ⩽ 1250				25/52	25/52	T	T	T	T
MTZ1 16H1			Ir ⩽ 1600					25/52	T	T	T	T
MTZ1 06H2	50	50	Ir ⩽ 630	25/52	25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 08H2			Ir ⩽ 800		25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 10H2			Ir ⩽ 1000			25/52	25/52	25/52	T	T	T	T
MTZ1 12H2			Ir ⩽ 1250				25/52	25/52	T	T	T	T
MTZ1 16H2			Ir ⩽ 1600					25/52	T	T	T	T
MTZ1 06H3	66	66	Ir ⩽ 630	25/52	25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 08H3			Ir ⩽ 800		25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 10H3			Ir ⩽ 1000			25/52	25/52	25/52	T	T	T	T
MTZ1 12H3			Ir ⩽ 1250				25/52	25/52	T	T	T	T
MTZ1 16H3			Ir ⩽ 1600					25/52	T	T	T	T
MTZ1 06L1	150	130	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
MTZ1 08L1			Ir ⩽ 800		T	T	T	T	T	T	T	T
MTZ1 10L1			Ir ⩽ 1000			T	T	T	T	T	T	T

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

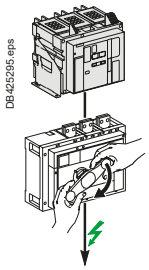
36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Master**Pact** MTZ2

Downstream: Com**Pact** INS/INV500 to 2500



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Downstream	Switch-disconnector	INS500 INV500	INS630 INV630	INS630b INV630b	INS800 INV800	INS1000 INV1000	INS1250 INV1250	INS1600 INV1600	INS2000 INV2000	INS2500 INV2500
	Ith A 60°	500	630	630	800	1000	1250	1600	2000	2500
	Icw (kA)	20	20	35	35	35	35	35	50	50
	Icm (kÂ)	50	50	75	75	75	75	75	105	105

Upstream Circuit breaker	Icu (kA) 415 V	440 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity								
MTZ2 08N1	42	42	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
MTZ2 10N1			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
MTZ2 12N1			Ir ⩽ 800				35/75	35/75	35/75	35/75	T	T
MTZ2 16N1			Ir ⩽ 1000					35/75	35/75	35/75	T	T
MTZ2 20N1			Ir ⩽ 1250						35/75	35/75	T	T
			Ir ⩽ 1600							35/75	T	T
			Ir ⩽ 2000								T	T
MTZ2 08H1	66	66	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
MTZ2 10H1			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
MTZ2 12H1			Ir ⩽ 800				35/75	35/75	35/75	35/75	50/105	50/105
MTZ2 16H1			Ir ⩽ 1000					35/75	35/75	35/75	50/105	50/105
MTZ2 20H1			Ir ⩽ 1250						35/75	35/75	50/105	50/105
MTZ2 25H1			Ir ⩽ 1600						35/75	35/75	50/105	50/105
			Ir ⩽ 2000								50/105	50/105
			Ir ⩽ 2500									50/105
MTZ2 08H2/H2V	100	100	Ir ⩽ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
MTZ2 10H2/H2V			Ir ⩽ 630		20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
MTZ2 12H2/H2V			Ir ⩽ 800				35/75	35/75	35/75	35/75	50/105	50/105
MTZ2 16H2/H2V			Ir ⩽ 1000					35/75	35/75	35/75	50/105	50/105
MTZ2 20H2/H2V			Ir ⩽ 1250						35/75	35/75	50/105	50/105
MTZ2 25H2/H2V			Ir ⩽ 1600						35/75	35/75	50/105	50/105
MTZ2 20H3	150	150	Ir ⩽ 2000								50/105	50/105
MTZ2 25H3			Ir ⩽ 2500									50/105

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

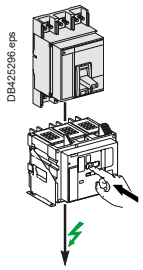
36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

C

Switch-disconnector - Circuit breaker coordination

Upstream: ComPact NS630b -1600, MasterPact MTZ1, MTZ2
Downstream: MasterPact MTZ1 HA, MasterPact MTZ2 NA



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	MTZ1 06HA	MTZ1 08HA	MTZ1 10HA	MTZ1 12HA	MTZ1 16HA	MTZ2 08NA	MTZ2 10NA	MTZ2 12NA	MTZ2 16NA
	Ith A 60°	630	800	1000	1250	1600	800	1000	1250	1600
	Icw (kA)	36	36	36	36	36	42	42	42	42
	Icm (kÂ)	75	75	75	75	75	88	88	88	88

Upstream Circuit breaker	Icu (kA) 415 V	Icu (kA) 440 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity								
NS630bN	50	50	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
NS800N			Ir ⩽ 800		T	T	T	T	T	T	T	T
NS1000N			Ir ⩽ 1000			T	T	T		T	T	T
NS1250N			Ir ⩽ 1250				T	T			T	T
NS1600N			Ir ⩽ 1600					T				T
NS630bH	70	65	Ir ⩽ 630	50/105	50/105	50/105	50/105	50/105	50/105	50/105	50/105	50/105
NS800H			Ir ⩽ 800		50/105	50/105	50/105	50/105	50/105	50/105	50/105	50/105
NS1000H			Ir ⩽ 1000			50/105	50/105	50/105		50/105	50/105	50/105
NS1250H			Ir ⩽ 1250				50/105	50/105			50/105	50/105
NS1600H			Ir ⩽ 1600					50/105				50/105
NS630bL	150	130	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
NS800L			Ir ⩽ 800		T	T	T	T	T	T	T	T
NS1000L			Ir ⩽ 1000			T	T	T		T	T	T
NS630bLB	200	200	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
NS800LB			Ir ⩽ 800		T	T	T	T	T	T	T	T
MTZ1 06H1	42	42	Ir ⩽ 630	36/75	36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ1 08H1			Ir ⩽ 800		36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ1 10H1			Ir ⩽ 1000			36/75	36/75	36/75		42/88	42/88	42/88
MTZ1 12H1			Ir ⩽ 1250				36/75	36/75			42/88	42/88
MTZ1 16H1			Ir ⩽ 1600					36/75				42/88
MTZ1 06H2	50	50	Ir ⩽ 630	36/75	36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ1 08H2			Ir ⩽ 800		36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ1 10H2			Ir ⩽ 1000			36/75	36/75	36/75		42/88	42/88	42/88
MTZ1 12H2			Ir ⩽ 1250				36/75	36/75			42/88	42/88
MTZ1 16H2			Ir ⩽ 1600					36/75				42/88
MTZ1 06H3	66	66	Ir ⩽ 630	36/75	36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ1 08H3			Ir ⩽ 800		36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ1 10H3			Ir ⩽ 1000			36/75	36/75	36/75		42/88	42/88	42/88
MTZ1 12H3			Ir ⩽ 1250				36/75	36/75			42/88	42/88
MTZ1 16H3			Ir ⩽ 1600					36/75				42/88
MTZ1 06L1	150	130	Ir ⩽ 630	T	T	T	T	T	T	T	T	T
MTZ1 08L1			Ir ⩽ 800		T	T	T	T	T	T	T	T
MTZ1 10L1			Ir ⩽ 1000			T	T	T		T	T	T
MTZ2 08N1	42	42	Ir ⩽ 800		36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ2 10N1			Ir ⩽ 1000			36/75	36/75	36/75		42/88	42/88	42/88
MTZ2 12N1			Ir ⩽ 1250				36/75	36/75			42/88	42/88
MTZ2 16N1			Ir ⩽ 1600					36/75				42/88
MTZ2 20N1												
MTZ2 08H1	66	66	Ir ⩽ 800		36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ2 10H1			Ir ⩽ 1000			36/75	36/75	36/75		42/88	42/88	42/88
MTZ2 12H1			Ir ⩽ 1250				36/75	36/75			42/88	42/88
MTZ2 16H1			Ir ⩽ 1600					36/75				42/88

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

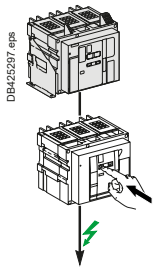
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Master**Pact** MTZ2, MTZ3
Downstream: Master**Pact** MTZ2 HA, MTZ3 HA



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	MTZ2 08 HA	MTZ2 10 HA	MTZ2 12 HA	MTZ2 16 HA	MTZ2 20 HA	MTZ2 25 HA	MTZ2 32 HA	MTZ2 40 HA	MTZ3 40 HA	MTZ3 50 HA	MTZ3 63 HA
	Ith A 60°	800	1000	1250	1600	2000	2500	3200	4000	4000	5000	6300
	Icw (kA)	66	66	66	66	66	66	66	66	85	85	85
	Icm (kÂ)	145	145	145	145	145	145	145	145	187	187	187

Upstream Circuit breaker	Icu (kA) 415 V	Icu (kA) 440 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity										
MTZ2 08N1	42	42	Ir ⩽ 800	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10N1			Ir ⩽ 1000		T	T	T	T	T	T	T	T	T	T
MTZ2 12N1			Ir ⩽ 1250			T	T	T	T	T	T	T	T	T
MTZ2 16N1			Ir ⩽ 1600				T	T	T	T	T	T	T	T
MTZ2 20N1			Ir ⩽ 2000					T	T	T	T	T	T	T
MTZ2 08H1	66	66	Ir ⩽ 800	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10H1			Ir ⩽ 1000		T	T	T	T	T	T	T	T	T	T
MTZ2 12H1			Ir ⩽ 1250			T	T	T	T	T	T	T	T	T
MTZ2 16H1			Ir ⩽ 1600				T	T	T	T	T	T	T	T
MTZ2 20H1			Ir ⩽ 2000					T	T	T	T	T	T	T
MTZ2 25H1			Ir ⩽ 2500						T	T	T	T	T	T
MTZ2 32H1			Ir ⩽ 3200							T	T	T	T	T
MTZ2 40H1			Ir ⩽ 4000								T	T	T	T
MTZ3 40H1	100	100	Ir ⩽ 4000								66/145	85/187	85/187	85/187
MTZ3 50H1			Ir ⩽ 5000										85/187	85/187
MTZ3 63H1			Ir ⩽ 6300											85/187
MTZ2 08H2/H2V	100	100	Ir ⩽ 800	66/145	66/145	66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 10H2/H2V			Ir ⩽ 1000		66/145	66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 12H2/H2V			Ir ⩽ 1250			66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 16H2/H2V			Ir ⩽ 1600				66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 20H2/H2V			Ir ⩽ 2000					66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 25H2/H2V			Ir ⩽ 2500						66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 32H2/H2V			Ir ⩽ 3200							66/145	66/145	85/187	85/187	85/187
MTZ2 40H2/H2V			Ir ⩽ 4000								66/145	85/187	85/187	85/187
MTZ2 08L1	150	150	Ir ⩽ 800	66/145	66/145	66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 10L1			Ir ⩽ 1000		66/145	66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 12L1			Ir ⩽ 1250			66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 16L1			Ir ⩽ 1600				66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 20L1			Ir ⩽ 2000					66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 20H3			Ir ⩽ 2000					66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 25H3			Ir ⩽ 2500						66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 32H3			Ir ⩽ 3200							66/145	66/145	85/187	85/187	85/187
MTZ2 40H3			Ir ⩽ 4000								66/145	85/187	85/187	85/187
MTZ3 40H2	150	150	Ir ⩽ 4000								66/145	85/187	85/187	85/187
MTZ3 50H2			Ir ⩽ 5000										85/187	85/187
MTZ3 63H2			Ir ⩽ 6300											85/187

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

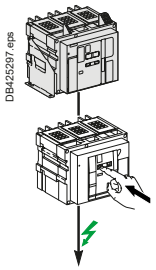
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Master**Pact** MTZ2, Master**Pact** MTZ3
Downstream: Master**Pact** MTZ2 HF



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	MTZ2 08 HF	MTZ2 10 HF	MTZ2 12 HF	MTZ2 16 HF	MTZ2 20 HF	MTZ2 25 HF	MTZ2 32 HF	MTZ2 40 HF
	Ith A 60°	800	1000	1250	1600	2000	2500	3200	4000
	Icw (kA)	85	85	85	85	85	85	85	85
	Icm (kÂ)	187	187	187	187	187	187	187	187

Upstream Circuit breaker	Icu (kA) 415 V	Icu (kA) 440 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity							
MTZ2 08N1	42	42	Ir ⩽ 800	T	T	T	T	T	T	T	T
MTZ2 10N1			Ir ⩽ 1000		T	T	T	T	T	T	T
MTZ2 12N1			Ir ⩽ 1250			T	T	T	T	T	T
MTZ2 16N1			Ir ⩽ 1600				T	T	T	T	T
MTZ2 20N1			Ir ⩽ 2000					T	T	T	T
MTZ2 08H1	66	66	Ir ⩽ 800	T	T	T	T	T	T	T	T
MTZ2 10H1			Ir ⩽ 1000		T	T	T	T	T	T	T
MTZ2 12H1			Ir ⩽ 1250			T	T	T	T	T	T
MTZ2 16H1			Ir ⩽ 1600				T	T	T	T	T
MTZ2 20H1			Ir ⩽ 2000					T	T	T	T
MTZ2 25H1			Ir ⩽ 2500						T	T	T
MTZ2 32H1			Ir ⩽ 3200							T	T
MTZ2 40H1			Ir ⩽ 4000								T
MTZ3 40H1	100	100	Ir ⩽ 2500						85/187	85/187	85/187
MTZ3 50H1			Ir ⩽ 3200							85/187	85/187
MTZ3 63H1			Ir ⩽ 4000								85/187
MTZ2 08H2/H2V	100	100	Ir ⩽ 800	100/220	100/220	100/220	100/220	100/220	100/220	100/220	100/220
MTZ2 10H2/H2V			Ir ⩽ 1000		100/220	100/220	100/220	100/220	100/220	100/220	100/220
MTZ2 12H2/H2V			Ir ⩽ 1250			100/220	100/220	100/220	100/220	100/220	100/220
MTZ2 16H2/H2V			Ir ⩽ 1600				100/220	100/220	100/220	100/220	100/220
MTZ2 20H2/H2V			Ir ⩽ 2000					100/220	100/220	100/220	100/220
MTZ2 25H2/H2V			Ir ⩽ 2500						100/220	100/220	100/220
MTZ2 32H2/H2V			Ir ⩽ 3200							100/220	100/220
MTZ2 40H2/H2V			Ir ⩽ 4000								100/220
MTZ2 08L1	150	150	Ir ⩽ 800	100/220	100/220	100/220	100/220	100/220	100/220	100/220	100/220
MTZ2 10L1			Ir ⩽ 1000		100/220	100/220	100/220	100/220	100/220	100/220	100/220
MTZ2 12L1			Ir ⩽ 1250			100/220	100/220	100/220	100/220	100/220	100/220
MTZ2 16L1			Ir ⩽ 1600				100/220	100/220	100/220	100/220	100/220
MTZ2 20L1			Ir ⩽ 2000					100/220	100/220	100/220	100/220
MTZ2 20H3	150	150	Ir ⩽ 2000					85/187	85/187	85/187	85/187
MTZ2 25H3			Ir ⩽ 2500						85/187	85/187	85/187
MTZ2 32H3			Ir ⩽ 3200							85/187	85/187
MTZ2 40H3			Ir ⩽ 4000								85/187
MTZ3 40H2	150	150	Ir ⩽ 2500						85/187	85/187	85/187
MTZ3 50H2			Ir ⩽ 3200							85/187	85/187
MTZ3 63H2			Ir ⩽ 4000								85/187

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

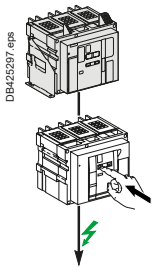
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Master**Pact** MTZ2, Master**Pact** MTZ3
Downstream: Master**Pact** MTZ2 HH, Master**Pact** NW40b/50/63 HH



Ue ⩽ 440 V AC

Downstream	Switch-disconnector	MTZ2 20 HH	MTZ2 25 HH	MTZ2 32 HH	MTZ2 40 HH	NW40b HH	NW50 HH	NW63 HH
	Ith A 60°	2000	2500	3200	4000	4000	5000	6300
	Icw (kA)	100	100	100	100	100	100	100
	Icm (kÂ)	220	220	220	220	220	220	220

Upstream Circuit breaker	Icu (kA) 415 V	Icu (kA) 440 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity						
MTZ2 08N1	42	42	Ir<=800	T	T	T	T	T	T	T
MTZ2 10N1			Ir<=1000	T	T	T	T	T	T	T
MTZ2 12N1			Ir<=1250	T	T	T	T	T	T	T
MTZ2 16N1			Ir<=1600	T	T	T	T	T	T	T
MTZ2 20N1			Ir<=2000	T	T	T	T	T	T	T
MTZ2 08H1	66	66	Ir<=800	T	T	T	T	T	T	T
MTZ2 10H1			Ir<=1000	T	T	T	T	T	T	T
MTZ2 12H1			Ir<=1250	T	T	T	T	T	T	T
MTZ2 16H1			Ir<=1600	T	T	T	T	T	T	T
MTZ2 20H1			Ir<=2000	T	T	T	T	T	T	T
MTZ2 25H1			Ir<=2500		T	T	T	T	T	T
MTZ2 32H1			Ir<=3200			T	T	T	T	T
MTZ2 40H1			Ir<=4000				T	T	T	T
MTZ3 40H1	100	100	Ir<=2500		T	T	T	T	T	T
MTZ3 50H1			Ir<=3200			T	T	T	T	T
MTZ3 63H1			Ir<=4000				T	T	T	T
			Ir<=5000						T	T
			Ir<=6300							T
MTZ2 08H2/H2V	100	100	Ir ⩽ 800	T	T	T	T	T	T	T
MTZ2 10H2/H2V			Ir ⩽ 1000	T	T	T	T	T	T	T
MTZ2 12H2/H2V			Ir ⩽ 1250	T	T	T	T	T	T	T
MTZ2 16H2/H2V			Ir ⩽ 1600	T	T	T	T	T	T	T
MTZ2 20H2/H2V			Ir ⩽ 2000	T	T	T	T	T	T	T
MTZ2 25H2/H2V			Ir ⩽ 2500		T	T	T	T	T	T
MTZ2 32H2/H2V			Ir ⩽ 3200			T	T	T	T	T
MTZ2 40H2/H2V			Ir ⩽ 4000				T	T	T	T
MTZ2 08L1	150	150	Ir ⩽ 800	100/220	100/220	100/220	100/220	100/220	100/220	100/220
MTZ2 10L1			Ir ⩽ 1000	100/220	100/220	100/220	100/220	100/220	100/220	100/220
MTZ2 12L1			Ir ⩽ 1250	100/220	100/220	100/220	100/220	100/220	100/220	100/220
MTZ2 16L1			Ir ⩽ 1600	100/220	100/220	100/220	100/220	100/220	100/220	100/220
MTZ2 20L1			Ir ⩽ 2000	100/220	100/220	100/220	100/220	100/220	100/220	100/220
MTZ2 20H3	150	150	Ir ⩽ 2000	100/220	100/220	100/220	100/220	100/220	100/220	100/220
MTZ2 25H3			Ir ⩽ 2500		100/220	100/220	100/220	100/220	100/220	100/220
MTZ2 32H3			Ir ⩽ 3200			100/220	100/220	100/220	100/220	100/220
MTZ2 40H3			Ir ⩽ 4000				100/220	100/220	100/220	100/220
MTZ3 40H2	150	150	Ir ⩽ 2500		100/220	100/220	100/220	100/220	100/220	100/220
MTZ3 50H2			Ir ⩽ 3200			100/220	100/220	100/220	100/220	100/220
MTZ3 63H2			Ir ⩽ 4000				100/220	100/220	100/220	100/220
			Ir<=5000						100/220	100/220
			Ir<=6300							100/220

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

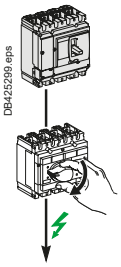
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: ComPact NSXm, ComPact NSX100 to 250
Downstream: ComPact INS100 to 250, ComPact INV100 to 250



Ue: 500-525 V AC

Downstream	Switch-disconnector	INS100	INS250-100 INV100	INS125	INS160	INS250-160 INV160	INS250-200 INV200	INS250 INV250
	Ith A 60°	100	100	125	160	160	200	250
	Icw (kA)	5.5	8.5	5.5	5.5	8.5	8.5	8.5
	Icm (kÂ)	20	30	20	20	30	30	30

Upstream Circuit breaker	Icu (kA) 500 V	525 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity						
NSXm E/B TMD	8/10	-	Ir ≤ 40	T	T	T	T	T	T	T
			Ir ≤ 50	T	T	T	T	T	T	T
			Ir ≤ 63	T	T	T	T	T	T	T
NSXm F TMD	15	10	Ir ≤ 40	T	T	T	T	T	T	T
			Ir ≤ 50	T	T	T	T	T	T	T
			Ir ≤ 63	T	T	T	T	T	T	T
NSXm N TMD	25	15	Ir ≤ 40	T	T	T	T	T	T	T
			Ir ≤ 50	T	T	T	T	T	T	T
			Ir ≤ 63	T	T	T	T	T	T	T
NSXm H TMD	30	22	Ir ≤ 40	T	T	T	T	T	T	T
			Ir ≤ 50	T	T	T	T	T	T	T
			Ir ≤ 63	T	T	T	T	T	T	T
NSX100B NSX160B NSX250B TMD / TMG / MicroLogic	15	-	Ir ≤ 100	T	T	T	T	T	T	T
			Ir ≤ 125			T	T	T	T	T
			Ir ≤ 160				T	T	T	T
			Ir ≤ 200						T	T
			Ir ≤ 250							T
NSX100F NSX160F NSX250F TMD / TMG / MicroLogic	25	22	Ir ≤ 100	T	T	T	T	T	T	T
			Ir ≤ 125			T	T	T	T	T
			Ir ≤ 160				T	T	T	T
			Ir ≤ 200						T	T
			Ir ≤ 250							T
NSX100N NSX160N NSX250N TMD / TMG / MicroLogic	36	35	Ir ≤ 100	22/46	T	22/46	T	T	T	T
			Ir ≤ 125			22/46	T	T	T	T
			Ir ≤ 160				T	T	T	T
			Ir ≤ 200						T	T
			Ir ≤ 250							T
NSX100H NSX160H NSX250H TMD / TMG / MicroLogic	50	35	Ir ≤ 100	22/46	T	22/46	T	T	T	T
			Ir ≤ 125			22/46	T	T	T	T
			Ir ≤ 160				T	T	T	T
			Ir ≤ 200						T	T
			Ir ≤ 250							T
NSX100S NSX160S NSX250S TMD / TMG / MicroLogic	65	40	Ir ≤ 100	22/46	T	22/46	T	T	T	T
			Ir ≤ 125			22/46	T	T	T	T
			Ir ≤ 160				T	T	T	T
			Ir ≤ 200						T	T
			Ir ≤ 250							T
NSX100L NSX160L NSX250L TMD / TMG / MicroLogic	70	50	Ir ≤ 100	22/46	T	22/46	T	T	T	T
			Ir ≤ 125			22/46	T	T	T	T
			Ir ≤ 160				T	T	T	T
			Ir ≤ 200						T	T
			Ir ≤ 250							T
NSX100R NSX250R TMD / TMG / MicroLogic	80	65	Ir ≤ 100	22/46	T	22/46	T	T	T	T
			Ir ≤ 125			22/46	T	T	T	T
			Ir ≤ 160				T	T	T	T
			Ir ≤ 200						T	T
			Ir ≤ 250							T

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

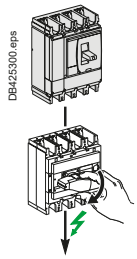
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: ComPact NSX400 to 630
Downstream: ComPact INS/INV100 to 630



Ue: 500-525 V AC

Downstream	Switch-Disconnector	INS250-100 INV100	INS250-160 INV160	INS250-200 INV200	INS250 INV250	INS320 INV320	INS400 INV400	INS500 INV500	INS630 INV630	INS630b INV630b
	Ith A 60°	100	160	200	250	320	400	500	630	630
	Icw (kA)	8.5	8.5	8.5	8.5	20	20	20	20	35
	Icm (kÂ)	30	30	30	30	50	50	50	50	75

Upstream Circuit breaker	Icu (kA) 500 V	525 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity								
NSX400F **NSX630F** MicroLogic	25	20	Ir = 100 [1]	T	T	T	T	T	T	T	T	T
			Ir ≤ 160		T	T	T	T	T	T	T	T
			Ir ≤ 200			T	T	T	T	T	T	T
			Ir ≤ 250				T	T	T	T	T	T
			Ir ≤ 320					T	T	T	T	T
			Ir ≤ 400						T	T	T	T
			Ir ≤ 500							T	T	T
			Ir ≤ 630								T	T
NSX400N **NSX630N** MicroLogic	30	22	Ir = 100 [1]	25/52	25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 160		25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 200			25/52	25/52	T	T	T	T	T
			Ir ≤ 250				25/52	T	T	T	T	T
			Ir ≤ 320					T	T	T	T	T
			Ir ≤ 400						T	T	T	T
			Ir ≤ 500							T	T	T
			Ir ≤ 630								T	T
NSX400H **NSX630H** MicroLogic	50	35	Ir = 100 [1]	25/52	25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 160		25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 200			25/52	25/52	T	T	T	T	T
			Ir ≤ 250				25/52	T	T	T	T	T
			Ir ≤ 320					T	T	T	T	T
			Ir ≤ 400						T	T	T	T
			Ir ≤ 500							T	T	T
			Ir ≤ 630								T	T
NSX400S **NSX630S** MicroLogic	65	40	Ir = 100 [1]	25/52	25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 160		25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 200			25/52	25/52	T	T	T	T	T
			Ir ≤ 250				25/52	T	T	T	T	T
			Ir ≤ 320					T	T	T	T	T
			Ir ≤ 400						T	T	T	T
			Ir ≤ 500							T	T	T
			Ir ≤ 630								T	T
NSX400L **NSX630L** MicroLogic	70	50	Ir = 100 [1]	25/52	25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 160		25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 200			25/52	25/52	T	T	T	T	T
			Ir ≤ 250				25/52	T	T	T	T	T
			Ir ≤ 320					T	T	T	T	T
			Ir ≤ 400						T	T	T	T
			Ir ≤ 500							T	T	T
			Ir ≤ 630								T	T
NSX400R **NSX630R** MicroLogic	80	65	Ir = 100 [1]	25/52	25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 160		25/52	25/52	25/52	T	T	T	T	T
			Ir ≤ 200			25/52	25/52	T	T	T	T	T
			Ir ≤ 250				25/52	T	T	T	T	T
			Ir ≤ 320					T	T	T	T	T
			Ir ≤ 400						T	T	T	T
			Ir ≤ 500							T	T	T
			Ir ≤ 630								T	T

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

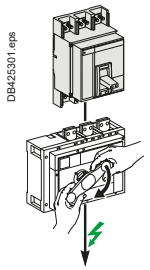
36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

[1] NSX400 with MicroLogic 250 A can be set down to 100 A.

Switch-disconnector - Circuit breaker coordination

Upstream: ComPact NS630b to 3200, MasterPact MTZ1/2
Downstream: ComPact INS/INV500 to 2500



Ue: 500-525 V AC

Downstream	Switch-disconnector	INS500 INV500	INS630 INV630	INS630b INV630b	INS800 INV800	INS1000 INV1000	INS1250 INV1250	INS1600 INV1600	INS2000 INV2000	INS2500 INV2500
	Ith A 60°	500	630	630	800	1000	1250	1600	2000	2500
	Icw (kA)	20	20	35	35	35	35	35	50	50
	Icm (kÂ)	50	50	75	75	75	75	75	105	105

Upstream Circuit breaker	Icu (kA) 500-525 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity								
NS630bN NS800N NS1000N NS1250N NS1600N	40	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 800				35/75	35/75	35/75	35/75	T	T
		Ir ≤ 1000					35/75	35/75	35/75	T	T
		Ir ≤ 1250						35/75	35/75	T	T
		Ir ≤ 1600							35/75	T	T
NS630bH NS800H NS1000H NS1250H NS1600H	50	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 800				35/75	35/75	35/75	35/75	T	T
		Ir ≤ 1000					35/75	35/75	35/75	T	T
		Ir ≤ 1250						35/75	35/75	T	T
		Ir ≤ 1600							35/75	T	T
NS630bL NS800L NS1000L	100	Ir ≤ 500	36/75	36/75	T	T	T	T	T	T	T
		Ir ≤ 630		36/75	T	T	T	T	T	T	T
		Ir ≤ 800				T	T	T	T	T	T
		Ir ≤ 1000					T	T	T	T	T
NS630bLB NS800LB	100	Ir ≤ 500	70/154	70/154	T	T	T	T	T	T	T
		Ir ≤ 630		70/154	T	T	T	T	T	T	T
		Ir ≤ 800				T	T	T	T	T	T
NS1600bN NS2000N NS2500N NS3200N	65	Ir ≤ 1250						35/75	35/75	50/105	50/105
		Ir ≤ 1600							35/75	50/105	50/105
		Ir ≤ 2000								50/105	50/105
		Ir ≤ 2500									50/105
MTZ1 06H1/H2 MTZ1 08H1/2 MTZ1 10H1/2 MTZ1 12H1/2 MTZ1 16H1/2	42	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 800				35/75	35/75	35/75	35/75	T	T
		Ir ≤ 1000					35/75	35/75	35/75	T	T
		Ir ≤ 1250						35/75	35/75	T	T
		Ir ≤ 1600							35/75	T	T
MTZ1 06L1 MTZ1 08L1 MTZ1 10L1	100	Ir ≤ 500	36/75	36/75	T	T	T	T	T	T	T
		Ir ≤ 630		36/75	T	T	T	T	T	T	T
		Ir ≤ 800				T	T	T	T	T	T
		Ir ≤ 1000					T	T	T	T	T
MTZ2 08N1 MTZ2 10N1 MTZ2 12N1 MTZ2 16N1 MTZ2 20N1	42	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 800				35/75	35/75	35/75	35/75	T	T
		Ir ≤ 1000					35/75	35/75	35/75	T	T
		Ir ≤ 1250						35/75	35/75	T	T
		Ir ≤ 1600							35/75	T	T
		Ir ≤ 2000								T	T
MTZ2 08 MTZ2 10 MTZ2 12 MTZ2 16 MTZ2 20 MTZ2 25 MTZ2 32 MTZ2 40	H1/H/H3/L1 66/85/130	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 800				35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 1000					35/75	35/75	35/75	50/105	50/105
		Ir ≤ 1250						35/75	35/75	50/105	50/105
		Ir ≤ 1600						35/75	35/75	50/105	50/105
		Ir ≤ 2000								50/105	50/105
		Ir ≤ 2500									50/105

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

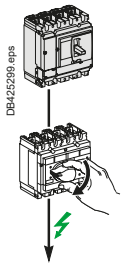
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: ComPact NSXm, ComPact NSX100 to 250
Downstream: ComPact INS100 to 250, ComPact INV100 to 250



Ue: 690 V AC

Downstream	Switch-disconnector	INS100	INS250-100 INV100	INS125	INS160	INS250-160 INV160	INS250-200 INV200	INS250 INV250
	Ith A 60°	100	100	125	160	160	200	200
	Icw (kA)	5.5	8.5	5.5	5.5	8.5	8.5	8.5
	Icm (kÂ)	20	30	20	20	30	30	30

Upstream Circuit breaker	Icu (kA) 690 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity						
NSXm N TMD	10	Ir ≤ 40	T	T	T	T	T	T	T
		Ir ≤ 50	T	T	T	T	T	T	T
		Ir ≤ 63	T	T	T	T	T	T	T
NSXm H TMD	10	Ir ≤ 40	T	T	T	T	T	T	T
		Ir ≤ 50	T	T	T	T	T	T	T
		Ir ≤ 63	T	T	T	T	T	T	T
NSX100F NSX160F NSX250F TMD / TMG / MicroLogic	8	Ir ≤ 100	T	T	T	T	T	T	T
		Ir ≤ 125			T	T	T	T	T
		Ir ≤ 160				T	T	T	T
		Ir ≤ 200						T	T
		Ir ≤ 250							T
NSX100N NSX160N NSX250N TMD / TMG / MicroLogic	10	Ir ≤ 100	T	T	T	T	T	T	T
		Ir ≤ 125			T	T	T	T	T
		Ir ≤ 160				T	T	T	T
		Ir ≤ 200						T	T
		Ir ≤ 250							T
NSX100H NSX160H NSX250H TMD / TMG / MicroLogic	10	Ir ≤ 100	T	T	T	T	T	T	T
		Ir ≤ 125			T	T	T	T	T
		Ir ≤ 160				T	T	T	T
		Ir ≤ 200						T	T
		Ir ≤ 250							T
NSX100S NSX160S NSX250S TMD / TMG / MicroLogic	15	Ir ≤ 100	T	T	T	T	T	T	T
		Ir ≤ 125			T	T	T	T	T
		Ir ≤ 160				T	T	T	T
		Ir ≤ 200						T	T
		Ir ≤ 250							T
NSX100L NSX160L NSX250L TMD / TMG / MicroLogic	20	Ir ≤ 100	T	T	T	T	T	T	T
		Ir ≤ 125			T	T	T	T	T
		Ir ≤ 160				T	T	T	T
		Ir ≤ 200						T	T
		Ir ≤ 250							T
NSX100R NSX250R TMD / TMG / MicroLogic	45	Ir ≤ 100	20/40	T	20/40	20/40	T	T	T
		Ir ≤ 125			20/40	20/40	T	T	T
		Ir ≤ 160				20/40	T	T	T
		Ir ≤ 200						T	T
		Ir ≤ 250							T

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

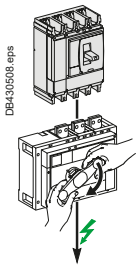
36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

C

Switch-disconnector - Circuit breaker coordination

Upstream: ComPact NSX400 to 630
Downstream: ComPact INS/INV500 to 2500



Ue: 690 V AC

Downstream	Switch-disconnector	INS500 INV500	INS630 INV630	INS630b INV630b	INS800 INV800	INS1000 INV1000	INS1250 INV1250	INS1600 INV1600	INS2000 INV2000	INS2500 INV2500
	Ith A 60°	630	630	630	800	1000	1250	1600	2000	2500
	Icw (kA)	20	20	35	35	35	35	35	50	50
	Icm (kÂ)	50	50	75	75	75	75	75	105	105

Upstream Circuit breaker	Icu (kA) 690 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity								
NSX400F **NSX630F** MicroLogic	10	Ir = 100 [1]	T	T	T	T	T	T	T	T	T
		Ir ≤ 160		T	T	T	T	T	T	T	T
		Ir ≤ 200			T	T	T	T	T	T	T
		Ir ≤ 250				T	T	T	T	T	T
		Ir ≤ 320					T	T	T	T	T
		Ir ≤ 400						T	T	T	T
		Ir ≤ 500							T	T	T
		Ir ≤ 630								T	T
NSX400N **NSX630N** MicroLogic	10	Ir = 100 [1]	T	T	T	T	T	T	T	T	T
		Ir ≤ 160		T	T	T	T	T	T	T	T
		Ir ≤ 200			T	T	T	T	T	T	T
		Ir ≤ 250				T	T	T	T	T	T
		Ir ≤ 320					T	T	T	T	T
		Ir ≤ 400						T	T	T	T
		Ir ≤ 500							T	T	T
		Ir ≤ 630								T	T
NSX400H **NSX630H** MicroLogic	20	Ir = 100 [1]	T	T	T	T	T	T	T	T	T
		Ir ≤ 160		T	T	T	T	T	T	T	T
		Ir ≤ 200			T	T	T	T	T	T	T
		Ir ≤ 250				T	T	T	T	T	T
		Ir ≤ 320					T	T	T	T	T
		Ir ≤ 400						T	T	T	T
		Ir ≤ 500							T	T	T
		Ir ≤ 630								T	T
NSX400S **NSX630S** MicroLogic	25	Ir = 100 [1]	T	T	T	T	T	T	T	T	T
		Ir ≤ 160		T	T	T	T	T	T	T	T
		Ir ≤ 200			T	T	T	T	T	T	T
		Ir ≤ 250				T	T	T	T	T	T
		Ir ≤ 320					T	T	T	T	T
		Ir ≤ 400						T	T	T	T
		Ir ≤ 500							T	T	T
		Ir ≤ 630								T	T
NSX400L **NSX630L** MicroLogic	35	Ir = 100 [1]	25/52	25/52	25/52	25/52	T	T	T	T	T
		Ir ≤ 160		25/52	25/52	25/52	T	T	T	T	T
		Ir ≤ 200			25/52	25/52	T	T	T	T	T
		Ir ≤ 250				25/52	T	T	T	T	T
		Ir ≤ 320					T	T	T	T	T
		Ir ≤ 400						T	T	T	T
		Ir ≤ 500							T	T	T
		Ir ≤ 630								T	T
NSX400R **NSX630R** MicroLogic	45	Ir = 100 [1]	25/52	25/52	25/52	25/52	T	T	T	T	T
		Ir ≤ 160		25/52	25/52	25/52	T	T	T	T	T
		Ir ≤ 200			25/52	25/52	T	T	T	T	T
		Ir ≤ 250				25/52	T	T	T	T	T
		Ir ≤ 320					T	T	T	T	T
		Ir ≤ 400						T	T	T	T
		Ir ≤ 500							T	T	T
		Ir ≤ 630								T	T

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

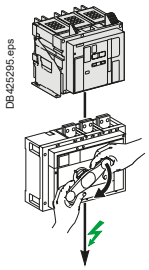
36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

[1] NSX400 with MicroLogic 250 A can be set down to 100 A.

Switch-disconnector - Circuit breaker coordination

Upstream: Com**Pact** NS630b to 3200, Master**Pact** MTZ1/2
Downstream: Com**Pact** INS/INV500 to 2500



Ue: 690 V AC

Downstream	Switch-disconnector	INS500 INV500	INS630 INV630	INS630b INV630b	INS800 INV800	INS1000 INV1000	INS1250 INV1250	INS1600 INV1600	INS2000 INV2000	INS2500 INV2500
	Ith A 60°	630	630	630	800	1000	1250	1600	2000	2500
	Icw (kA)	20	20	35	35	35	35	35	50	50
	Icm (kÂ)	50	50	75	75	75	75	75	105	105

Upstream Circuit breaker	Icu (kA) 690 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity								
NS630bN NS800N NS1000N NS1250N NS1600N	30	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 800				35/75	35/75	35/75	35/75	T	T
		Ir ≤ 1000					35/75	35/75	35/75	T	T
		Ir ≤ 1250						35/75	35/75	T	T
		Ir ≤ 1600							35/75	T	T
NS630bH NS800H NS1000H NS1250H NS1600H	42	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 800				35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 1000					35/75	35/75	35/75	50/105	50/105
		Ir ≤ 1250						35/75	35/75	50/105	50/105
		Ir ≤ 1600							35/75	50/105	50/105
NS630bLB NS800LB	75	Ir ≤ 500	70/154	70/154	T	T	T	T	T	T	T
		Ir ≤ 630		70/154	T	T	T	T	T	T	T
		Ir ≤ 800				T	T	T	T	T	T
NS1600bN NS2000N NS2500N NS3200N	65	Ir ≤ 1250						35/75	35/75	50/105	50/105
		Ir ≤ 1600							35/75	50/105	50/105
		Ir ≤ 2000								50/105	50/105
		Ir ≤ 2500									50/105
MTZ1 06H1/H2 MTZ1 08H1/2 MTZ1 10H1/2 MTZ1 12H1/2 MTZ1 16H1/2	42	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 800				35/75	35/75	35/75	35/75	T	T
		Ir ≤ 1000					35/75	35/75	35/75	T	T
		Ir ≤ 1250						35/75	35/75	T	T
		Ir ≤ 1600							35/75	T	T
MTZ1 06L1 MTZ1 08L1 MTZ1 10L1	25	Ir ≤ 500	T	T	T	T	T	T	T	T	T
		Ir ≤ 630		T	T	T	T	T	T	T	T
		Ir ≤ 800				T	T	T	T	T	T
		Ir ≤ 1000					T	T	T	T	T
MTZ2 08N1 MTZ2 10N1 MTZ2 12N1 MTZ2 16N1 MTZ2 20N1	42	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	T	T
		Ir ≤ 800				35/75	35/75	35/75	35/75	T	T
		Ir ≤ 1000					35/75	35/75	35/75	T	T
		Ir ≤ 1250						35/75	35/75	T	T
		Ir ≤ 1600							35/75	T	T
		Ir ≤ 2000								T	T
MTZ2 08 MTZ2 10 MTZ2 12 MTZ2 16 MTZ2 20 MTZ2 25 MTZ2 32 MTZ2 40	H1/H2/H3/L1 66/85/100/100	Ir ≤ 500	20/50	20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 630		20/50	35/75	35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 800				35/75	35/75	35/75	35/75	50/105	50/105
		Ir ≤ 1000					35/75	35/75	35/75	50/105	50/105
		Ir ≤ 1250						35/75	35/75	50/105	50/105
		Ir ≤ 1600						35/75	35/75	50/105	50/105
		Ir ≤ 2000								50/105	50/105
		Ir ≤ 2500									50/105

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

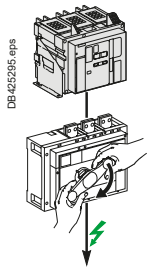
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: ComPact NSX100 to 630
Downstream: ComPact NSX100NA to 630NA



Ue: 500-525 V AC
Ue: 690 V AC

Downstream	Switch-disconnector	NSX100NA	NSX160NA	NSX250NA	NSX400NA	NSX630NA
	Ith A 60°	100	160	250	400	630
	Icw (kA)	1.8	2.5	3.5	5	6
	Icm (kÂ)	2.6	3.6	4.9	7.1	8.5

Upstream Circuit breaker	Icu (kA) 500 V	525 V	690 V	Ir	Switch-disconnector conditionnal short-circuit current and related making capacity				
NSX100B **NSX160B** **NSX250B** TMD / TMG / MicroLogic	15	-	-	Ir ≤ 50	T	T	T	T	T
				Ir ≤ 100	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
NSX100F **NSX160F** **NSX250F** TMD / TMG / MicroLogic	25	22	8	Ir ≤ 50	T	T	T	T	T
				Ir ≤ 100	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
NSX400F **NSX630F** MicroLogic	25	20	10	Ir = 100 [1]	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
				Ir ≤ 400				T	T
				Ir ≤ 630					T
NSX100N **NSX160N** **NSX250N** TMD / TMG / MicroLogic	36	35	10	Ir ≤ 50	T	T	T	T	T
				Ir ≤ 100	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
NSX400N **NSX630N** MicroLogic	30	22	10	Ir = 100 [1]	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
				Ir ≤ 400				T	T
				Ir ≤ 630					T
NSX100H **NSX160H** **NSX250H** TMD / TMG / MicroLogic	50	35	10	Ir ≤ 50	T	T	T	T	T
				Ir ≤ 100	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
NSX400H **NSX630H** MicroLogic	50	35	20	Ir = 100 [1]	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
				Ir ≤ 400				T	T
				Ir ≤ 630					T
NSX100S **NSX160S** **NSX250S** TMD / TMG / MicroLogic	65	40	15	Ir ≤ 50	T	T	T	T	T
				Ir ≤ 100	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
NSX400S **NSX630S** MicroLogic	65	40	25	Ir = 100 [1]	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
				Ir ≤ 400				T	T
				Ir ≤ 630					T
NSX100L **NSX160L** **NSX250L** TMD / TMG / MicroLogic	70	50	20	Ir ≤ 50	T	T	T	T	T
				Ir ≤ 100	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
NSX400L **NSX630L** MicroLogic	70	50	35	Ir = 100 [1]	T	T	T	T	T
				Ir ≤ 160		T	T	T	T
				Ir ≤ 250			T	T	T
				Ir ≤ 400				T	T
				Ir ≤ 630					T

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

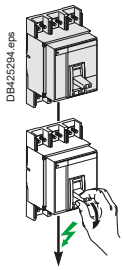
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

: Protection of the switch-disconnector is not ensured

[1] NSX400 with MicroLogic 250 A can be set down to 100 A.

Switch-disconnector - Circuit breaker coordination

Upstream: ComPact NS630b to 3200, MasterPact MTZ1
Downstream: ComPact NS630b to 3200 NA



Ue: 500-525 V AC
Ue: 690 V AC

Downstream	Switch-disconnector	NS630b NA	NS800 NA	NS1000 NA	NS1250 NA	NS1600 NA	NS1600b NA	NS2000 NA	NS2500 NA	NS3200 NA
	Ith A 60°	630	800	1000	1250	1600	1600	2000	2500	3200
	Icw (kA)	25 (0.5s)	25 (0.5s)	25 (0.5s)	25 (0.5s)	25 (0.5s)	32 (3s)	32 (3s)	32 (3s)	32 (3s)
	Icm (kÂ)	52	52	52	52	52	135	135	135	135

Upstream Circuit breaker	Icu (kA) 500-525 V	Icu (kA) 690 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity								
NS630bN	40	30	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800N			Ir ≤ 800		T	T	T	T	T	T	T	T
NS1000N			Ir ≤ 1000			T	T	T	T	T	T	T
NS1250N			Ir ≤ 1250				T	T	T	T	T	T
NS1600N			Ir ≤ 1600					T	T	T	T	T
NS630bH	50	42	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800H			Ir ≤ 800		T	T	T	T	T	T	T	T
NS1000H			Ir ≤ 1000			T	T	T	T	T	T	T
NS1250H			Ir ≤ 1250				T	T	T	T	T	T
NS1600H			Ir ≤ 1600					T	T	T	T	T
NS630bL	100	-	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800L			Ir ≤ 800		T	T	T	T	T	T	T	T
NS1000L			Ir ≤ 1000			T	T	T	T	T	T	T
NS630bLB	100	75	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800LB			Ir ≤ 800		T	T	T	T	T	T	T	T
NS1600bN	65	65	Ir ≤ 1600						T	T	T	T
NS2000N			Ir ≤ 2000							T	T	T
NS2500N			Ir ≤ 2500								T	T
NS3200N			Ir ≤ 3200									T
MTZ1 06H1	42	42	Ir ≤ 630	25/52	25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 08H1			Ir ≤ 800		25/52	25/52	25/52	25/52	T	T	T	T
MTZ1 10H1			Ir ≤ 1000			25/52	25/52	25/52	T	T	T	T
MTZ1 12H1			Ir ≤ 1250				25/52	25/52	T	T	T	T
MTZ1 16H1			Ir ≤ 1600					25/52	T	T	T	T
MTZ1 06L1	100	25	Ir ≤ 630	T	T	T	T	T	T	T	T	T
MTZ1 08L1			Ir ≤ 800		T	T	T	T	T	T	T	T
MTZ1 10L1			Ir ≤ 1000			T	T	T	T	T	T	T

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

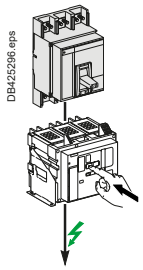
36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

C

Switch-disconnector - Circuit breaker coordination

Upstream: Com**Pact** NS630b to1600, Master**Pact** MTZ1, MTZ2
Downstream: Master**Pact** MTZ1 HA, Master**Pact** MTZ2 NA



Ue: 500-525 V AC
Ue: 690 V AC

Downstream	Switch-disconnector	MTZ1 06HA	MTZ1 08HA	MTZ1 10HA	MTZ1 12HA	MTZ1 16HA	MTZ2 08NA	MTZ2 10NA	MTZ2 12NA	MTZ2 16NA
	Ith A 60°	630	800	1000	1250	1600	800	1000	1250	1600
	Icw (kA)	36	36	36	36	36	42	42	42	42
	Icm (kÂ)	75	75	75	75	75	88	88	88	88

Upstream Circuit breaker	Icu (kA) 500-525 V	Icu (kA) 690 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity								
NS630bN	40	30	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800N			Ir ≤ 800		T	T	T	T	T	T	T	T
NS1000N			Ir ≤ 1000			T	T	T		T	T	T
NS1250N			Ir ≤ 1250				T	T			T	T
NS1600N			Ir ≤ 1600					T				T
NS630bH	50	42	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800H			Ir ≤ 800		T	T	T	T	T	T	T	T
NS1000H			Ir ≤ 1000			T	T	T		T	T	T
NS1250H			Ir ≤ 1250				T	T			T	T
NS1600H			Ir ≤ 1600					T				T
NS630bL	100	-	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800L			Ir ≤ 800		T	T	T	T	T	T	T	T
NS1000L			Ir ≤ 1000			T	T	T		T	T	T
NS630bLB	100	75	Ir ≤ 630	T	T	T	T	T	T	T	T	T
NS800LB			Ir ≤ 800		T	T	T	T	T	T	T	T
MTZ1 06H1/2	42	42	Ir ≤ 630	36/75	36/75	36/75	36/75	36/75	T	T	T	T
MTZ1 08H1/2			Ir ≤ 800		36/75	36/75	36/75	36/75	T	T	T	T
MTZ1 10H1/2			Ir ≤ 1000			36/75	36/75	36/75		T	T	T
MTZ1 12H1/2			Ir ≤ 1250				36/75	36/75			T	T
MTZ1 16H1/2			Ir ≤ 1600					36/75				T
MTZ1 06L1	100	25	Ir ≤ 630	T	T	T	T	T	T	T	T	T
MTZ1 08L1			Ir ≤ 800		T	T	T	T	T	T	T	T
MTZ1 10L1			Ir ≤ 1000			T	T	T		T	T	T
MTZ2 08N1	42	42	Ir ≤ 800		36/75	36/75	36/75	36/75	T	T	T	T
MTZ2 10N1			Ir ≤ 1000			36/75	36/75	36/75		T	T	T
MTZ2 12N1			Ir ≤ 1250				36/75	36/75			T	T
MTZ2 16N1			Ir ≤ 1600					36/75				T
MTZ2 20N1												
MTZ2 08H1	66	66	Ir ≤ 800		36/75	36/75	36/75	36/75	42/88	42/88	42/88	42/88
MTZ2 10H1			Ir ≤ 1000			36/75	36/75	36/75		42/88	42/88	42/88
MTZ2 12H1			Ir ≤ 1250				36/75	36/75			42/88	42/88
MTZ2 16H1			Ir ≤ 1600					36/75				42/88
MTZ2 20H1												

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

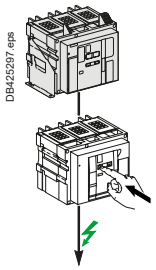
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Master**Pact** MTZ2, MTZ3
Downstream: Master**Pact** MTZ2 HA, MTZ3 HA



Ue: 500-525 V AC
Ue: 690 V AC

Downstream	Switch-disconnector	MTZ2 08 HA	MTZ2 10 HA	MTZ2 12 HA	MTZ2 16 HA	MTZ2 20 HA	MTZ2 25 HA	MTZ2 32 HA	MTZ2 40 HA	MTZ3 40 HA	MTZ3 50 HA	MTZ3 63 HA
	Ith A 60°	800	1000	1250	1600	2000	2500	3200	4000	4000	5000	6300
	Icw (kA)	66	66	66	66	66	66	66	66	85	85	85
	Icm (kÂ)	145	145	145	145	145	145	145	145	187	187	187

Upstream	Icu (kA)		Setting	Switch-disconnector conditionnal short-circuit current and related making capacity										
Circuit breaker	500-525 V	690 V	Ir											
MTZ2 08N1	42	42	Ir ≤ 800	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10N1			Ir ≤ 1000		T	T	T	T	T	T	T	T	T	T
MTZ2 12N1			Ir ≤ 1250			T	T	T	T	T	T	T	T	T
MTZ2 16N1			Ir ≤ 1600				T	T	T	T	T	T	T	T
MTZ2 20N1			Ir ≤ 2000					T	T	T	T	T	T	T
MTZ2 08H1	66	66	Ir ≤ 800	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10H1			Ir ≤ 1000		T	T	T	T	T	T	T	T	T	T
MTZ2 12H1			Ir ≤ 1250			T	T	T	T	T	T	T	T	T
MTZ2 16H1			Ir ≤ 1600				T	T	T	T	T	T	T	T
MTZ2 20H1			Ir ≤ 2000					T	T	T	T	T	T	T
MTZ2 25H1			Ir ≤ 2500						T	T	T	T	T	T
MTZ2 32H1			Ir ≤ 3200							T	T	T	T	T
MTZ2 40H1			Ir ≤ 4000								T	T	T	T
MTZ3 40H1	100	100	Ir ≤ 4000								66/145	85/187	85/187	85/187
MTZ3 50H1			Ir ≤ 5000										85/187	85/187
MTZ3 63H1			Ir ≤ 6300											85/187
MTZ2 08H2	85	85	Ir ≤ 800	66/145	66/145	66/145	66/145	66/145	66/145	66/145	66/145	T	T	T
MTZ2 10H2			Ir ≤ 1000		66/145	66/145	66/145	66/145	66/145	66/145	66/145	T	T	T
MTZ2 12H2			Ir ≤ 1250			66/145	66/145	66/145	66/145	66/145	66/145	T	T	T
MTZ2 16H2			Ir ≤ 1600				66/145	66/145	66/145	66/145	66/145	T	T	T
MTZ2 20H2			Ir ≤ 2000					66/145	66/145	66/145	66/145	T	T	T
MTZ2 25H2			Ir ≤ 2500						66/145	66/145	66/145	T	T	T
MTZ2 32H2			Ir ≤ 3200							66/145	66/145	T	T	T
MTZ2 40H2			Ir ≤ 4000								66/145	T	T	T
MTZ2 08L1	130	100	Ir ≤ 800	66/145	66/145	66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 10L1			Ir ≤ 1000		66/145	66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 12L1			Ir ≤ 1250			66/145	66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 16L1			Ir ≤ 1600				66/145	66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 20L1			Ir ≤ 2000					66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 20H3	130	100	Ir ≤ 2000					66/145	66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 25H3			Ir ≤ 2500						66/145	66/145	66/145	85/187	85/187	85/187
MTZ2 32H3			Ir ≤ 3200							66/145	66/145	85/187	85/187	85/187
MTZ2 40H3			Ir ≤ 4000								66/145	85/187	85/187	85/187
MTZ3 40H2	130	100	Ir ≤ 4000								66/145	85/187	85/187	85/187
MTZ3 50H2			Ir ≤ 5000										85/187	85/187
MTZ3 63H2			Ir ≤ 6300											85/187

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

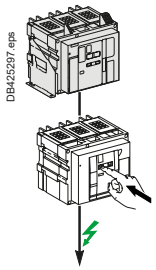
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Circuit breaker coordination

Upstream: Master**Pact** MTZ2, MTZ3
Downstream: Master**Pact** MTZ2 HF, Master**Pact** NW 40b/50/63 HH



Ue: 500-525 V AC
Ue: 690 V AC

Downstream	Switch-disconnector	MTZ2 08 HF	MTZ2 10 HF	MTZ2 12 HF	MTZ2 16 HF	MTZ2 20 HF	MTZ2 25 HF	MTZ2 32 HF	MTZ2 40 HF	NW40b HH	NW50 HH	NW63 HH
	Ith A 60°	800	1000	1250	1600	2000	2500	3200	4000	4000	5000	6300
	Icw (kA)	85	85	85	85	85	85	85	85	100	100	100
	Icm (kÂ)	187	187	187	187	187	187	187	187	220	220	220

Upstream Circuit breaker	Icu (kA) 525 V	Icu (kA) 690 V	Setting Ir	Switch-disconnector conditionnal short-circuit current and related making capacity										
MTZ2 08N1	42	42	Ir ≤ 800	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10N1			Ir ≤ 1000		T	T	T	T	T	T	T	T	T	T
MTZ2 12N1			Ir ≤ 1250			T	T	T	T	T	T	T	T	T
MTZ2 16N1			Ir ≤ 1600				T	T	T	T	T	T	T	T
MTZ2 20N1			Ir ≤ 2000					T	T	T	T	T	T	T
MTZ2 08H1	66	66	Ir ≤ 800	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10H1			Ir ≤ 1000		T	T	T	T	T	T	T	T	T	T
MTZ2 12H1			Ir ≤ 1250			T	T	T	T	T	T	T	T	T
MTZ2 16H1			Ir ≤ 1600				T	T	T	T	T	T	T	T
MTZ2 20H1			Ir ≤ 2000					T	T	T	T	T	T	T
MTZ2 25H1			Ir ≤ 2500						T	T	T	T	T	T
MTZ2 32H1			Ir ≤ 3200							T	T	T	T	T
MTZ2 40H1			Ir ≤ 4000								T	T	T	T
MTZ3 40H1	100	100	Ir ≤ 2500							85/187	85/187	85/187	T	T	T
MTZ3 50H1			Ir ≤ 3200								85/187	85/187	T	T	T
MTZ3 63H1			Ir ≤ 4000									85/187	T	T	T
			Ir ≤ 5000											T	T
			Ir ≤ 6300												T
MTZ2 08H2	85	85	Ir ≤ 800	T	T	T	T	T	T	T	T	T	T	T	T
MTZ2 10H2			Ir ≤ 1000		T	T	T	T	T	T	T	T	T	T	T
MTZ2 12H2			Ir ≤ 1250			T	T	T	T	T	T	T	T	T	T
MTZ2 16H2			Ir ≤ 1600				T	T	T	T	T	T	T	T	T
MTZ2 20H2			Ir ≤ 2000					T	T	T	T	T	T	T	T
MTZ2 25H2			Ir ≤ 2500						T	T	T	T	T	T	T
MTZ2 32H2			Ir ≤ 3200							T	T	T	T	T	T
MTZ2 40H2			Ir ≤ 4000								T	T	T	T	T
MTZ2 08L1	130	100	Ir ≤ 800	85/187	85/187	85/187	85/187	85/187	85/187	85/187	85/187	100/220	100/220	100/220	100/220
MTZ2 10L1			Ir ≤ 1000		85/187	85/187	85/187	85/187	85/187	85/187	85/187	100/220	100/220	100/220	100/220
MTZ2 12L1			Ir ≤ 1250			85/187	85/187	85/187	85/187	85/187	85/187	100/220	100/220	100/220	100/220
MTZ2 16L1			Ir ≤ 1600				85/187	85/187	85/187	85/187	85/187	100/220	100/220	100/220	100/220
MTZ2 20L1			Ir ≤ 2000					85/187	85/187	85/187	85/187	100/220	100/220	100/220	100/220
MTZ2 20H3	130	100	Ir ≤ 2000					85/187	85/187	85/187	85/187	100/220	100/220	100/220	100/220
MTZ2 25H3			Ir ≤ 2500						85/187	85/187	85/187	100/220	100/220	100/220	100/220
MTZ2 32H3			Ir ≤ 3200							85/187	85/187	100/220	100/220	100/220	100/220
MTZ2 40H3			Ir ≤ 4000								85/187	100/220	100/220	100/220	100/220
MTZ3 40H2	130	100	Ir ≤ 2500							85/187	85/187	85/187	100/220	100/220	100/220
MTZ3 50H2			Ir ≤ 3200								85/187	85/187	100/220	100/220	100/220
MTZ3 63H2			Ir ≤ 4000									85/187	100/220	100/220	100/220
			Ir ≤ 5000											100/220	100/220
			Ir ≤ 6300												100/220

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

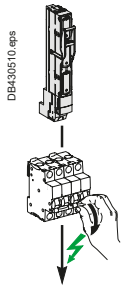
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Switch-disconnector - Fuse coordination

Upstream: gG Fuse
Downstream: iSW-NA, iID, iSW, NG125NA



Ue ⩽ 415 V AC

Downstream	Switch-disconnector	iSW-NA				iID [1]				
	Rating (A)	40	63	80	100	25	40	63	100	125
	Icw (kA)	800	1260	1600	2000	500	800	1260	1200	1500
	Icm (kÂ)	5	5	5	5	5	5	5	5	5

Upstream Fuse type	Rating (A)	Switch-disconnector conditionnal short-circuit current and related making capacity								
gG fuse link without overload relay	16	T	T	T	T	T	T	T	T	T
	20	T	T	T	T		T	T	T	T
	25	T	T	T	T		T	T	T	T
	32		80/176	80/176	80/176			80/176	80/176	80/176
	40		80/176	80/176	80/176			80/176	80/176	80/176
	50			30/63	30/63				30/63	30/63
	63				30/63					30/63

Downstream	Switch-disconnector	iSW				NG125NA			
	Rating (A)	40	63	100	125	63	80	100	125
	Icw (kA)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Icm (kÂ)	5	5	5	5	2	2	2	2

Upstream Fuse type	Rating (A)	Switch-disconnector conditionnal short-circuit current and related making capacity							
gG fuse link without overload relay	16	60/132	60/132	60/132	60/132	T	T	T	T
	20	40/84	40/84	40/84	40/84	T	T	T	T
	25	25/52	25/52	25/52	25/52	T	T	T	T
	32		20/40	20/40	20/40	80/176	80/176	80/176	80/176
	40		10/17	10/17	10/17	80/176	80/176	80/176	80/176
	50			10/17	10/17		50/105	50/105	50/105
	63			10/17	10/17			50/105	50/105
	80				10/17				50/105

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

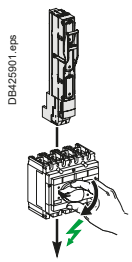
36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

[1] See Guide CA908023 for additional information.
Note: Current limitation caracteristics can be signifiantly different from one manufacturer to another.
This table can not dispense to check selected fuse charactersistics

Switch-disconnector - Fuse coordination

Upstream: gG, aM, BS fuses
Downstream: Com**Pact** INS40 to 630, INV100 to 360



Ue ⩽ 500 V AC

Downstream	Switch-Disconnector	ComPact INS 40 - 160						ComPact INS250 ComPact INV				ComPact INS ComPact INV			
	Ith (A) 60°	40	63	80	100	125	160	100	160	200	250	320	400	500	630
	Icw (kA)	3	3	3	5.5	5.5	5.5	8.5	8.5	8.5	8.5	20	20	20	20
	Icm (kÂ)	15	15	15	20	20	20	30	30	30	30	50	50	50	50
Upstream															
Fuse type	**Rating**	**Switch-disconnector conditionnal short-circuit current and related making capacity**													
gG fuse link without overload relay	25	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	32	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	40		T	T	T	T	T	T	T	T	T	T	T	T	T
	50		T	T	T	T	T	T	T	T	T	T	T	T	T
	63				T	T	T	T	T	T	T	T	T	T	T
	80				T	T	T	T	T	T	T	T	T	T	T
	100					T	T		T	T	T	T	T	T	T
	125						T		T	T	T	T	T	T	T
	160									T	T	T	T	T	T
	200										T	T	T	T	T
	225-250											T	T	T	T
	300-315												T	T	T
	355													T	T
	400													T	T
	450														T
	500														T
gG fuse link with overload relay	40	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50-63	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	80	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	125	80/176	80/176	80/176	T	T	T	T	T	T	T	T	T	T	T
	160	36/75	36/75	36/75	50/105	50/105	50/105	T	T	T	T	T	T	T	T
	200				36/75	36/75	36/75	T	T	T	T	T	T	T	T
	225-250							T	T	T	T	T	T	T	T
	300							T	T	T	T	T	T	T	T
	315							T	T	T	T	T	T	T	T
	355							50/105	50/105	50/105	50/105	T	T	T	T
	400-450											T	T	T	T
	500											T	T	T	T
	630											50/105	50/105	50/105	50/105
	800														
aM Fuse link with overload relay	40	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	50 - 63	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	80	80/176	80/176	80/176	T	T	T	T	T	T	T	T	T	T	T
	100	50/105	50/105	50/105	T	T	T	T	T	T	T	T	T	T	T
	125				T	T	T	T	T	T	T	T	T	T	T
	160				50/105	50/105	50/105	T	T	T	T	T	T	T	T
	200				36/75	36/75	36/75	T	T	T	T	T	T	T	T
	225							80/176	80/176	80/176	80/176	T	T	T	T
	250							50/105	50/105	50/105	50/105	T	T	T	T
	300-315											T	T	T	T
	355-400											T	T	T	T
	450											50/105	50/105	50/105	50/105
	500											50/105	50/105	50/105	50/105
	630											30/63	30/63	30/63	30/63
BS Fuse link with overload relay	32M63	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	63M80	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	63M100	T	T	T	T	T	T	T	T	T	T	T	T	T	T
	100M125	50/105	50/105	50/105	T	T	T	T	T	T	T	T	T	T	T
	100M160				50/105	50/105	50/105	T	T	T	T	T	T	T	T
	100M200							T	T	T	T	T	T	T	T
	200M250							T	T	T	T	T	T	T	T
	200M315											T	T	T	T
	315M400											50/105	50/105	50/105	50/105
	400M500												40/84	40/84	40/84

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

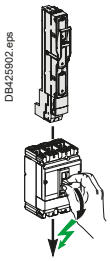
36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Note: Current limitation caracteristics can be signifiantly different from one manufacturer to another.
This table can not dispense to check selected fuse charactersistics

Switch-disconnector - Fuse coordination

Upstream: gG, aM, BS fuses
Downstream: Com**Pact** NSXm50 to 160NA, NSX100 to 630NA



Ue ⩽ 500 V AC

Downstream	Switch-Disconnector	NSXm50NA	NSXm100NA	NSXm160NA	NSX100NA	NSX160NA	NSX250NA	NSX400NA	NSX630NA
	Ith (A) 60°	50	100	160	100	160	250	400	630
	Icw (kA)	50	100	160	1.8	2.5	3.5	5	6
	Icm (kÂ)	0.9 1.38	1.5 2.13	1.5 2.13	2.6	3.6	4.9	7.1	8.5

Upstream Fuse type	Rating	Switch-disconnector conditionnal short-circuit current and related making capacity							
gG fuse link without overload relay	40	T	T	T	T	T	T	T	T
	50-63		T	T	T	T	T	T	T
	80		T	T	T	T	T	T	T
	100			T		T	T	T	T
	125			T		T	T	T	T
	160						T	T	T
	200						T	T	T
	225-250							T	T
	300-315							T	T
	355								T
	400-450								T
	500								T
gG fuse link with overload relay	40	T	T	T	T	T	T	T	T
	50-63	T	T	T	T	T	T	T	T
	80		T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T
	125			T		T	T	T	T
	160			T		T	T	T	T
	200						T	T	T
	225-250						T	T	T
	300-315							T	T
	355							T	T
	400-450							T	T
	500								T
	630								T
aM Fuse link with overload relay	40	T	T	T	T	T	T	T	T
	50 - 63	T	T	T	T	T	T	T	T
	80		T	T	T	T	T	T	T
	100		T	T	T	T	T	T	T
	125			T		T	T	T	T
	160			T		T	T	T	T
	200						T	T	T
	225-250						T	T	T
	300-315							T	T
	355							T	T
	400-450								T
	500								T
	630								T
BS Fuse link with overload relay	32M63	T	T	T	T	T	T	T	T
	63M80		T	T	T	T	T	T	T
	63M100		T	T	T	T	T	T	T
	100M125		T	T	T	T	T	T	T
	100M160		T	T	T	T	T	T	T
	100M200						T	T	T
	200M250						T	T	T
	200M315							T	T
	315M400							T	T
	400M500								T

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

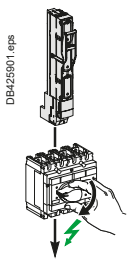
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

: Protection of the switch-disconnector is not ensured

Note: Current limitation caracteristics can be signifiantly different from one manufacturer to another.
This table can not dispense to check selected fuse charactersistics

Switch-disconnector - Fuse coordination

Upstream: gG, aM, BS fuses
Downstream: Com**Pact** INS40 to 630, INV100 to 630



Ue ⩽ 690 V AC

Downstream	Switch-Disconnector	ComPact INS 40 - 160			ComPact INS250 ComPact INV				ComPact INS ComPact INV			
	Ith (A) 60°	100	125	160	100	160	200	250	320	400	500	630
	Icw (kA)	5.5	5.5	5.5	8.5	8.5	8.5	8.5	20	20	20	20
	Icm (kÂ)	20	20	20	30	30	30	30	50	50	50	50
Upstream												
Fuse type	**Rating**											
gG fuse link without overload relay	25	T	T	T	T	T	T	T	T	T	T	T
	32	T	T	T	T	T	T	T	T	T	T	T
	40	T	T	T	T	T	T	T	T	T	T	T
	50	T	T	T	T	T	T	T	T	T	T	T
	63	T	T	T	T	T	T	T	T	T	T	T
	80	T	T	T	T	T	T	T	T	T	T	T
	100	T	T		T	T	T	T	T	T	T	T
	125		T		T	T	T	T	T	T	T	T
	160					T	T	T	T	T	T	T
	200						T	T	T	T	T	T
	225-250							T	T	T	T	T
	300-315								T	T	T	T
	355									T	T	T
	400									T	T	T
	450										T	T
	500										T	T
gG fuse link with overload relay	40	T	T	T	T	T	T	T	T	T	T	T
	50-63	T	T	T	T	T	T	T	T	T	T	T
	80	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T
	125	T	T	T	T	T	T	T	T	T	T	T
	160			T	T	T	T	T	T	T	T	T
	200			T	T	T	T	T	T	T	T	T
	225-250							T	T	T	T	T
	300							T	T	T	T	T
	315							T	T	T	T	T
	355							T	T	T	T	T
	400-450							T	T	T	T	T
	500							T	T	T	T	T
	630							50/105	50/105	50/105	50/105	50/105
	800											
aM Fuse link with overload relay	40	T	T	T	T	T	T	T	T	T	T	T
	50 - 63	T	T	T	T	T	T	T	T	T	T	T
	80	T	T	T	T	T	T	T	T	T	T	T
	100	T	T	T	T	T	T	T	T	T	T	T
	125			T	T	T	T	T	T	T	T	T
	160			T	T	T	T	T	T	T	T	T
	200			T	T	T	T	T	T	T	T	T
	225			50/105	50/105	50/105	50/105	T	T	T	T	T
	250							T	T	T	T	T
	300-315							T	T	T	T	T
	355-400							T	T	T	T	T
	450							50/105	50/105	50/105	50/105	50/105
	500							50/105	50/105	50/105	50/105	50/105
	630											30/63

T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side, but this combination is not very common

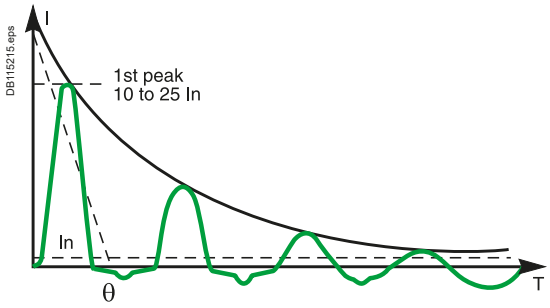
T : Switch-disconnector is totally coordinated up to the Icu of the circuit breaker installed on supply side

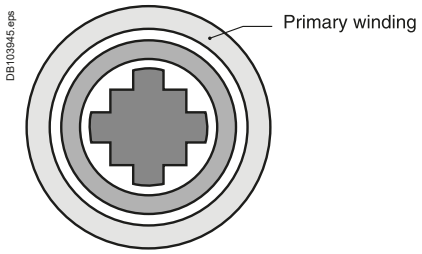
36/75 : Switch-disconnector is protected up to 36 kA rms / 75 kÂ

: Protection of the switch-disconnector is not ensured

Note: Current limitation caracteristics can be signifiantly different from one manufacturer to another.
This table can not dispense to check selected fuse charactersistics.

Protection of LV/LV transformers and capacitors





Inrush currents

When LV/LV transformers are switched on, very high inrush currents are produced which must be taken into account when choosing overcurrent protection devices. The peak value of the first current wave often reaches 10 to 15 times the rated rms current of the transformer and may reach values of 20 to 25 times the rated current even for transformers rated less than 50 kVA.

Selecting the protection

The values in the tables have been calculated for a crest factor of 25.
These tables indicate the circuit breaker and trip unit to be used depending on:

- the primary supply voltage (230 V or 400 V)
- the type of transformer (single-phase or three-phase).

They correspond to the most frequent case of step down-transformer in which the primary is wound externally [1] with no de-rating for harmonics (K-factor = 1).
The type of circuit breaker to be used (i.e. N, H or L) depends on the breaking capacity required at the point of installation.

Transformer Power rating (kVA)			Circuit breaker		
230-240V 1-ph	230-240V 3-ph 400-415V 1-ph	400-415V 3-ph	Type	Curve	Rating
0.05	0.09	0.16	iC60	D or K	0.5
0.11	0.18	0.32	iC60	D or K	1
0.21	0.36	0.63	iC60	D or K	2
0.33	0.58	1.0	iC60	D or K	3
0.67	1.2	2.0	iC60	D or K	6
1.1	1.8	3.2	iC60,NG125	D or K	10
1.7	2.9	5.0	iC60,NG125	D or K	16
2.1	3.6	6.3	iC60,NG125	D or K	20
2.7	4.6	8.0	iC60,NG125	D or K	25
3.3	5.8	10	iC60,NG125	D or K	32
4.2	7.2	13	iC60,NG125	D or K	40
5.3	9.2	16	iC60,NG125	D or K	50
6.7	12	20	iC60,NG125	D or K	63
8.3	14	25	C120,NG125	D or K	80
11	18	32	C120,NG125	D or K	100
13	23	40	C120,NG125	D or K	125

Protection using a Com**Pact** circuit breaker (1st peak ⩽ 25 In)

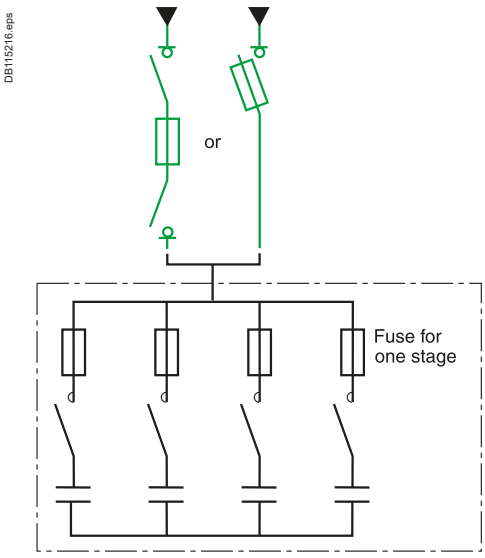
ComPact NSX100 to NSX250 equipped with TM-D thermal-magnetic trip unit					
Transformer rating (kVA)			Protective device		
230/240 V 1-phase	230/240 V 3-phases 400/415 V 1-phase	400/415 V 3-phases	Circuit breakers	Trip unit	Ir max setting
3	5 to 6	9 to 12	NSX100B/F/N/H/S/L	TM16D	1
5	8 to 9	14 to 16	NSX100B/F/N/H/S/L	TM25D	1
7 to 9	13 to 16	22 to 28	NSX100B/F/N/H/S/L/R	TM40D	1
12 to 15	20 to 25	35 to 44	NSX100B/F/N/H/S/L/R	TM63D	1
16 to 19	26 to 32	45 to 56	NSX100B/F/N/H/S/L/R	TM80D	1
18 to 23	32 to 40	55 to 69	NSX160B/F/N/H/S/L	TM100D	1
23 to 29	40 to 50	69 to 87	NSX160B/F/N/H/S/L	TM125D	1
29 to 37	51 to 64	89 to 111	NSX250B/F/N/H/S/L/R	TM160D	1
37 to 46	64 to 80	111 to 139	NSX250B/F/N/H/S/L/R	TM200D	1

Com**Pact** NSX100 to NS1600 / Master**Pact** equipped with MicroLogic trip unit

Transformer rating (kVA)			Protective device		
230/240 V 1-phase	230/240 V 3-phases 400/415 V 1-phase	400/415 V 3-phases	Circuit breakers	Trip unit	Ir max setting
4 to 7	6 to 13	11 to 22	NSX100B/F/N/H/S/L/R	MicroLogic 2.2, 4.2, 5.2, 6.2, 7.2 40	0.8
9 to 19	16 to 30	27 to 56	NSX100B/F/N/H/S/L/R	MicroLogic 2.2, 4.2, 5.2, 6.2, 7.2 100	0.8
15 to 30	05 to 50	44 to 90	NSX160B/F/N/H/S/L	MicroLogic 2.2, 4.2, 5.2, 6.2, 7.2 160	0.8
23 to 46	40 to 80	70 to 139	NSX250B/F/N/H/S/L/R	MicroLogic 2.2, 4.2, 5.2, 6.2, 7.2 250	0.8
37 to 65	64 to 112	111 to 195	NSX400F/N/H/S/L/R	MicroLogic 2.3, 4.3, 5.3, 6.3, 7.3 400	0.7
58 to 83	100 to 144	175 to 250	NSX630F/N/H/S/L/R	MicroLogic 2.3, 4.3, 5.3, 6.3, 7.3 630	0.6
58 to 150	100 to 250	175 to 436	NS630bN/bH-NT06H1	MicroLogic 5.0/6.0/7.0	1
74 to 184	107 to 319	222 to 554	NS800N/H-MTZ108H1-MTZ208N1/H1	MicroLogic 5.0/6.0/7.0	1
90 to 230	159 to 398	277 to 693	NS1000N/H-MTZ110H1-MTZ210N1/H1	MicroLogic 5.0/6.0/7.0	1
115 to 288	200 to 498	346 to 866	NS1250N/H-MTZ112H1-MTZ212N1/H1	MicroLogic 5.0/6.0/7.0	1
147 to 368	256 to 640	443 to 1108	NS1600N/H-MTZ116H1-MTZ216N1/H1	MicroLogic 5.0/6.0/7.0	1
184 to 460	320 to 800	554 to 1385	MTZ220N1/H1	MicroLogic 5.0/6.0/7.0	1
230 to 575	400 to 1000	690 to 1730	MTZ225H2/H3	MicroLogic 5.0/6.0/7.0	1
294 to 736	510 to 1280	886 to 2217	MTZ232H2/H3	MicroLogic 5.0/6.0/7.0	1

[1] For other windings or special applications, please consult us.
If a circuit breaker upstream of a transformer with a transformation ratio of 1 and a rated power of less than 5 kVA is subject to nuisance tripping, before choosing a circuit breaker with a higher rating, invert the input and the output of the transformer (the inrush current may be doubled if the primary is wound internally rather than externally).
NS630b L, LB, NS800 L LB, NS1000L, MTZ1 06 08 10 L1 can not be used without checking the inrush current is below their fast tripping caracteristics. Consult us.

Protection of LV/LV transformers and capacitors



Capacitor-bank protection.

Rectimat 2 capacitor bank.

Protection of capacitors

It is necessary to take into account:

- permissible variations in the fundamental voltage and in harmonic content

The increase in the current rating for the protection device may reach 30 %.

- variations due to capacitor tolerances.

The increase in the current rating for the protection device may reach 15 % (but only 5 % for Rectiphase capacitors).

Given the above, the generally required correction factor ranges from 1.6 to 2.

For Rectiphase capacitor banks, an optimised factor of only 1.4 may be used for standard banks.

Protection table for fixed or automatic capacitor banks

400/415 V Capacitor (kVAR)	gG fuse-link rating	FuPact
10 kVAR	20 A	GS●32 / GSD63
20 kVAR	40 A	GSC50 / GSB63 / GSD63
30 kVAR	63 A	GSC125 / GSB63 / GSD63
50 kVAR	100 A	GSC125 / GSB100 / GSD125
60 kVAR	125 A	GSC125 / GSB160 / GSD125
80 kVAR	160 A	GSB160 / GSD160
105 kVAR	250 A	GSB250 / GSD250
150 kVAR	315 A	GSB400 / GSD400
210 kVAR	450 A	GSB630 / GSD630
315 kVAR	670 A	GSB800 / GSD800

690 V Capacitor (kVAR)	gG fuse-link rating	FuPact
10 kVAR	16 A	GS●32 / GSD63
20 kVAR	32 A	GS●32 / GSD63
30 kVAR	40 A	GSC40 / GS●63
50 kVAR	63 A	GS●63 / GSC125
60 kVAR	80 A	GS●125 / GSB100
80 kVAR	100 A	GS●125 / GSDB160
105 kVAR	125 A	GS●160
150 kVAR	200 A	GS●250
210 kVAR	250 A	GS●400
315 kVAR	400 A	GS●400
405 kVAR	500 A	GS●630
450 kVAR	560 A	GS●630
495 kVAR	630 A	GS●800
540 kVAR	670 A	GS●800

Coordination tables between circuit breaker and Canalis electrical busbar trunking

When chosing a circuit breaker to protect a busbar trunking system, it is necessary to take into account:
- the usual rules concerning the circuit breaker current settings:

Ib ⩽ Ir ⩽ Inc where:
Ib = maximum load current
Ir = circuit breaker current setting
Inc = current rating of the busbar trunking
- the electrodynamic withstand of the busbar trunking: the peak current Î limited by the circuit breaker must be less than the electrodynamic withstand capacity (or rated peak current) of the busbar trunking.

The following tables provide maximum prospective short-circuit current where busbar trunking systems can be installed in coordination with specified circuit breaker.
Different coordination tables are provided for 400V AC and 690V AC systems

How to read the table
Example Canalis KSA630 Ue: 400V AC.

Type of Canalis

Maximum short-circuit current Isc (kA rms) for the specified circuit breaker in the column

Type of Canalis busbar trunking KSA630							
Isc max. in kA rms		**⩽ 32 kA**	**36 kA**	**50 kA**	**70 kA**	**100 kA**	**150 kA**
Type of circuit breaker	ComPact NSX	NSX400F/N/H/S/L **NSX630F/N/H/S/L**		NSX400N/H/S/L **NSX630N/H/S/L**	NSX400H/S/L **NSX630H/S/L**	NSX400S/L **NSX630S/L**	NSX400L **NSX630L**
	ComPact NS	NS630b N/H/L/LB NS800N/H/L/LB	NS630b L/LB NS800L/LB				NS630b LB NS800LB
	MasterPact MTZ1	MTZ1 06 H1/H2/H3/L1 MTZ1 08 H1/H2/H3/L1	MTZ1 06 L1 MTZ1 08 L1				

Family of circuit breaker

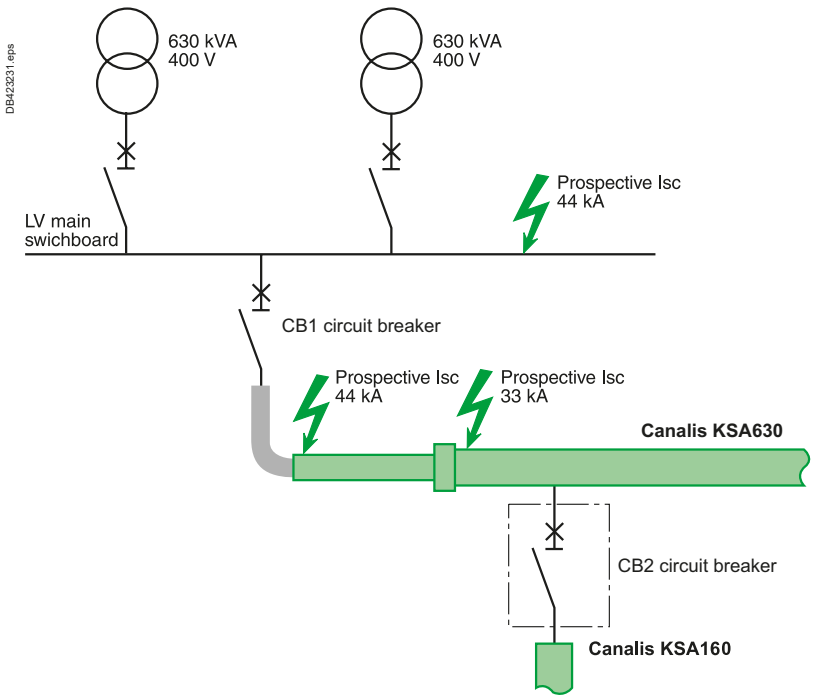
For a presumed short-circuit current of 65kA NSX400H/S/L, NSX630H/S/L, NS630b L/LB, NS800 L/LB, MTZ1 06L1 08L1 can be used to protect the canalis.
The bold line is the optimized solution.

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Example
Consider two 630 kVA/400 V transformer (Usc 4 %) supplying a main LV switchboard for which the prospective short-circuit current on the busbars is 44 kA.
From the switchboard, a 30-metre long Canalis KSA630 transmission electrical busbar trunking system (630 A) supplies a Canalis KSA630 trunking system (630A) for distribution with high-density tap-offs.
A tap-off on the KSA630 trunking supplies a Canalis KSA160 trunking system.
The short-circuit level are respectively:
- 44 kA downstream of circuit breaker CB1 and at the upstream connection of the KSA63 trunking
- 33 kA at the junction between the KSA630 transmission trunking and the KSA630 trunking for high-density tap-offs.

What circuit breakers should be chosen for CB1 and CB2 to protect the installation against short-circuits?

	CB1	CB2
Prospective Isc	44 kA	33 kA
Circuit breakers	NSX630N (50 kA breaking capacity)	NSX160F (36 kA breaking capacity)
Isc protection level for KSA630 trunking	50 kA	
Isc protection level for KSA160 trunking		35 kA



Coordination tables between circuit breaker and Canalis electrical busbar trunking

Canalis KDP KBA KBB L+N+PE
Ue: 220 or 240 V AC Ph/N

Type of Canalis busbar trunking KDP20 L + N + PE						
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**		
Type of circuit breaker	iC60	iC60N 10/16/20	iC60H 10/16/20	iC60L 10/16/20		
Isc max. in kA rms	NG	NG125N 10/16/20				
Type of Canalis busbar trunking KBA25 L + N + PE						
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	
Type of circuit breaker	iC60	iC60N 10/.../25	iC60H 10/.../25	iC60L 10/.../25	iC60L 10/.../25	
Isc max. in kA rms	NG	NG125N 10/.../25				
Type of Canalis busbar trunking KBB25 L + N + PE						
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	
Type of circuit breaker	iC60	iC60N 10/.../25	iC60H 10/.../25	iC60L 10/.../25	iC60L 10/.../25	
Isc max. in kA rms	NG	NG125N 10/.../25				
Type of Canalis busbar trunking KBA40 L + N + PE						
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**50 kA**
Type of circuit breaker	iC60	iC60N 10/.../40	iC60H 10/.../40	iC60L 40	iC60L 10/.../25	
Isc max. in kA rms	NG	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	NG125L 10/.../40
Type of Canalis busbar trunking KBB40 L + N + PE						
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**50 kA**
Type of circuit breaker	iC60	iC60N 10/.../40	iC60H 10/.../40	iC60L 40	iC60L 10/.../25	
Isc max. in kA rms	NG	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	NG125L 10/.../40

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Canalis KDP KBA KBB 3L+N+PE, KNA
Ue: 380-415 V AC

Type of Canalis busbar trunking KDP20 3L+N+PE							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**			
Type of circuit breaker	iC60	iC60N 10/16/20	iC60H 10/16/20	iC60L 10/16/20			
	NG125	NG125N 10/16/20					
Type of Canalis busbar trunking KBA25 3L+N+PE							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**		
Type of circuit breaker	iC60	**iC60N 10/.../25**	**iC60H 10/.../25**	**iC60L 10/.../25**	**iC60L 10/.../25**		
	NG125	NG125N 10/.../25					
Type of Canalis busbar trunking KBB25 3L+N+PE							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**		
Type of circuit breaker	iC60	**iC60N 10/.../25**	**iC60H 10/.../25**	**iC60L 10/.../25**	**iC60L 10/.../25**		
	NG125	NG125N 10/.../25					
Type of Canalis busbar trunking KBA40 3L+N+PE							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**36 kA**	**50 kA**
Type of circuit breaker	iC60	**iC60N 10/.../40**	**iC60H 10/.../40**	**iC60L 40**	**iC60L 10/.../25**		
	NG125	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	**NG125H 10/.../40**	**NG125L 10/.../40**
Type of Canalis busbar trunking KBB40 3L+N+PE							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**36 kA**	**50 kA**
Type of circuit breaker	iC60	**iC60N 10/.../40**	**iC60H 10/.../40**	**iC60L 40**	**iC60L 10/.../25**		
	NG125	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	NG125N 10/.../40	**NG125H 10/.../40**	**NG125L 10/.../40**

Type of Canalis busbar trunking KNA40							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**		
Type of circuit breaker	iC60	**iC60N 40**	**iC60H 40**	**iC60L 40**			
	NG125	NG125N/H/L 40					
	ComPact NSXm	NSXm E/B/F/N/H 40A		NSXm B/F/N/H 40A			
	ComPact NSX	NSX100B/F/N/H/S/L 40A					
Type of Canalis busbar trunking KNA63							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**36 kA**	**50 kA**
Type of circuit breaker	iC60	**iC60N 63**	**iC60H 63**				
	C120	C120N 63	C120H 63				
	NG125	**NG125N/H/L 63**				**NG125H 63**	**NG125L 63**
	ComPact NSXm	NSXm E/B/F/N/H 63A		NSXm B/F/N/H 63A			
	ComPact NSX	NSX100B/F/N/H/S/L 63A					
Type of Canalis busbar trunking KNA100							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**36 kA**	**50 kA**
Type of circuit breaker	C120	C120N 100A	C120H 100A				
	NG125	NG125N/H/L 100				NG125H/L 80	NG125L 80
	ComPact NSXm	NSXm E/B/F/N/H 100A		NSXm B/F/N/H 100A			
	ComPact NSX	NSX100B/F/N/H/S/L NSX160B/F/N/H/S/L					
Type of Canalis busbar trunking KNA160							
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**36 kA**	**50 kA**
Type of circuit breaker	NG125	NG125N125					
	ComPact NSXm	**NSXm E/B/F/N/H 160**		**NSXm B/F/N/H 160A**		**NSXm F/N/H 160A**	**NSXm N/H 160A**
	ComPact NSX	NSX100B/F/N/H/S/L **NSX160B/F/N/H/S/L** NSX250B/F/N/H/S/L				NSX100F/N/H/S/L **NSX160F/N/H/S/L** NSX250F/N/H/S/L	NSX100N/H/S/L **NSX160N/H/S/L** NSX250N/H/S/L

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Coordination tables between circuit breaker and Canalis electrical busbar trunking

Canalis KSA
Ue: 380-415 V AC

Type of Canalis busbar trunking KSA100

Isc max. in kA rms		25 kA	36 kA	50 kA
Type of circuit breaker	NG125	NG125N100	NG125H80	NG125L 80
	ComPact NSXm	NSXm B/F/N/H 100	NSXm F/N/H 100	
	ComPact NSX	NSX100B/F/N/H/S/L		

Type of Canalis busbar trunking KSA160

Isc max. in kA rms		25 kA	36 kA	50 kA	70 kA	90 kA
Type of circuit breaker	ComPact NSXm	**NSXm B/F/N/H 160**	**NSXm F/N/H 160**	**NSXm N/H 160**	**NSXm H 160**	
	ComPact NSX	NSX100B/F/N/H/S/L **NSX160B/F/N/H/S/L** NSX250B/F/N/H/S/L	NSX100F/N/H/S/L **NSX160F/N/H/S/L** NSX250F/N/H/S/L	NSX100N/H/S/L **NSX160N/H/S/L** NSX250N/H/S/L	NSX100H/S/L **NSX160H/S/L**	NSX100S/L

Type of Canalis busbar trunking KSA250

Isc max. in kA rms		25 kA	36 kA	50 kA	70 kA	100 kA	150 kA
Type of circuit breaker	ComPact NSX	NSX160B/F/N/H/S/L **NSX250B/F/N/H/S/L** NSX400F/N/H/S/L	NSX160F/N/H/S/L **NSX250F/N/H/S/L** NSX400F/N/H/S/L	NSX160N/H/S/L **NSX250N/H/S/L** NSX400N/H/S/L	NSX160H/S/L **NSX250H/S/L**	NSX160S/L **NSX250S/L**	NSX160L **NSX250L**

Type of Canalis busbar trunking KSA400

Isc max. in kA rms		25 kA	36 kA	50 kA	70 kA	100 kA	150 kA
Type of circuit breaker	ComPact NSX	NSX250B/F/N/H/S/L **NSX400F/N/H/S/L** NSX630F/N/H/S/L	NSX250F/N/H/S/L **NSX400F/N/H/S/L** NSX630F/N/H/S/L	NSX250N/H/S/L **NSX400N/H/S/L** NSX630N/H/S/L	NSX250H/S/L **NSX400H/S/L** NSX630H/S/L	NSX250S/L **NSX400S/L** NSX630S/L	NSX250L **NSX400L** NSX630L
	ComPact NS	NS630b N/H/L/LB	NS630b L/LB	NS630b L/LB	NS630b LB		

Type of Canalis busbar trunking KSA500

Isc max. in kA rms		25 kA	36 kA	50 kA	70 kA	100 kA	150 kA
Type of circuit breaker	ComPact NSX	NSX400F/N/H/S/L **NSX630F/N/H/S/L**	NSX400F/N/H/S/L **NSX630F/N/H/S/L**	NSX400N/H/S/L **NSX630N/H/S/L**	NSX400H/S/L **NSX630H/S/L**	NSX400S/L **NSX630S/L**	NSX400L **NSX630L**
	ComPact NS	NS630b N/H/L/LB		NS630b L / LB	NS630b LB		

Type of Canalis busbar trunking KSA630

Isc max. in kA rms		≤ 32 kA	36 kA	50 kA	70 kA	100 kA	150 kA
Type of circuit breaker	ComPact NSX	NSX400F/N/H/S/L **NSX630F/N/H/S/L**		NSX400N/H/S/L **NSX630N/H/S/L**	NSX400H/S/L **NSX630H/S/L**	NSX400S/L **NSX630S/L**	NSX400L **NSX630L**
	ComPact NS	NS630b N/H/L/LB NS800N/H/L/LB	NS630b L/LB NS800L/LB				NS630b LB NS800LB
	MasterPact MTZ1	MTZ1 06 H1/H2/H3/L1 MTZ1 08 H1/H2/H3/L1	MTZ1 06 L1 MTZ1 08 L1				

Type of Canalis busbar trunking KSA800

Isc max. in kA rms		25 kA	36 kA	50 kA	70 kA	100 kA	150 kA
Type of circuit breaker	ComPact NSX	NSX630F/N/H/S/L		NSX630N/H/S/L	NSX630H/S/L	NSX630S/L	NSX630L
	ComPact NS	NS630b N/H/L/LB **NS800N/H/L/LB** NS1000N/H/L		NS630b L/LB **NS800L/LB** NS1000L			
	MasterPact MTZ1	MTZ1 06 H1/H2/H3/L1 **MTZ1 08 H1/H2/H3/L1** MTZ1 10 H1/H2/H3/L1		MTZ1 06 L1 **MTZ1 08 L1** MTZ1 10 L1			

Type of Canalis busbar trunking KSA1000

Isc max. in kA rms		25 kA	36 kA	50 kA	70 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS	NS800N/H/L/LB NS1000N/H/L NS1250N/H		NS800L/LB NS1000L			
	MasterPact MTZ1	MTZ1 08 H1/H2/H3/L1 **MTZ1 10 H1/H2/H3/L1** MTZ1 12 H1/H2/H3		MTZ1 08 L1 **MTZ1 10 L1**			

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Canalis KTA / KTC
Ue: 380-415 V AC

Type of Canalis busbar trunking KTA0800

Isc max. in kA rms		≤ 30 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NSX	NSX630F/NH/S/L	NSX630N/H/S/L	NSX630H/S/L	NSX630S/L	NSX630S/L	NSX630L
	ComPact NS	NS630b N/H/L/LB **NS800N/H/L/LB** NS1000N/H/L/LB	NS630b L/LB **NS800L/LB** NS1000L			NS630b LB **NS800LB**	
	MasterPact MTZ1	MTZ1 06 H1/H2/H3/L1 **MTZ1 08 H1/H2/H3/L1** MTZ1 10 H1/H2/H3/L1	MTZ1 06 L1 **MTZ1 08 L1** MTZ1 10 L1				
	MasterPact MTZ2 [1]	**MTZ2 08 N1/H1/H2/L1** MTZ2 10 N1/H1/H2/L1					

Type of Canalis busbar trunking KTA0800 reinforced short-circuit level

Isc max. in kA rms		≤ 30 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NSX	NSX630F/NH/S/L	NSX630N/H/S/L	NSX630H/S/L	NSX630S/L	NSX630S/L	NSX630L
	ComPact NS	NS630b N/H/L/LB **NS800N/H/L/LB** NS1000N/H/L/LB	NS630b L/LB **NS800L/LB** NS1000L				NS630b LB **NS800LB**
	MasterPact MTZ1	MTZ1 06 H1/H2/H3/L1 **MTZ1 08 H1/H2/H3/L1** MTZ1 10 H1/H2/H3/L1	MTZ1 06 L1 **MTZ1 08 L1** MTZ1 10 L1				
	MasterPact MTZ2 [1]	**MTZ2 08 N1/H1/H2/L1** MTZ2 10 N1/H1/H2/L1					

Type of Canalis busbar trunking KTA1000 / KTC1000

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS	NS800N/H/L/LB **NS1000N/H/L** NS1250N/H		NS800L/LB **NS1000L**			
	MasterPact MTZ1	MTZ1 08 H1/H2/H3/L1 **MTZ1 10 H1/H2/H3/L1** MTZ1 12 H1/H2/H3	MTZ1 08 H2/H3/L1 **MTZ1 10 H2/H3/L1** MTZ1 12 H2/H3	MTZ1 08 L1 **MTZ1 10 L1**			
	MasterPact MTZ2 [1]	MTZ2 08 N1/H1/H2/L1 **MTZ2 10 N1/H1/H2/L1** MTZ2 12 N1/H1/H2/L1	MTZ2 08 H1/H2/L1 **MTZ2 10 H1/H2/L1** MTZ2 12 H1/H2/L1				

Type of Canalis busbar trunking KTA1000 / KTC1000 reinforced short-circuit level

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS	NS800N/H/L/LB **NS1000N/H/L** NS1250N/H		NS800H/L/LB **NS1000H/L** NS1250H		NS800L **NS1000L**	
	MasterPact MTZ1	MTZ1 08 H1/H2/H3/L1 **MTZ1 10 H1/H2/H3/L1** MTZ1 12 H1/H2/H3	MTZ1 08 H2/H3/L1 **MTZ1 10 H2/H3/L1** MTZ1 12 H2/H3	MTZ1 08 H3/L1 **MTZ1 10 H3/L1** MTZ1 12 H3		MTZ1 08 L1 **MTZ1 10 L1**	
	MasterPact MTZ2 [1]	MTZ2 08 N1/H1/H2/L1 **MTZ2 10 N1/H1/H2/L1** MTZ2 12 N1/H1/H2/L1	MTZ2 08 H1/H2/L1 **MTZ2 10 H1/H2/L1** MTZ2 12 H1/H2/L1		MTZ2 08 L1 **MTZ2 10 L1** MTZ2 12 L1		

Type of Canalis busbar trunking KTA1250 / KTC1350

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS	NS1000N/H **NS1250N/H** **NS1600N/H**		NS1000L			
	MasterPact MTZ1	MTZ1 10 H1/H2/H3/L1 **MTZ1 12 H1/H2/H3** MTZ1 16 H1/H2/H3	MTZ1 10 H2/H3/L1 **MTZ1 12 H2/H3** MTZ1 16 H2/H3	MTZ1 10 L1			
	MasterPact MTZ2 [1]	MTZ2 10 N1/H1/H2/L1 MTZ2 12 N1/H1/H2/L1 MTZ2 16 N1/H1/H2/L1	MTZ2 10 H1/H2/L1 MTZ2 12 H1/H2/L1 MTZ2 16 H1/H2/L1				

Type of Canalis busbar trunking KTA1250 / KTC1350 reinforced short-circuit level

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS	NS1000N/H/L **NS1250N/H** NS1600N/H		NS1000H/L **NS1250H** NS1600H		NS1000L	
	MasterPact MTZ1	MTZ1 10 H1/H2/H3/L1 **MTZ1 12 H1/H2/H3** MTZ1 16 H1/H2/H3	MTZ1 10 H2/H3/L1 **MTZ1 12 H2/H3** MTZ1 16 H2/H3	MTZ1 10 H3/L1 **MTZ1 12 H3** MTZ1 16 H3		MTZ1 10 L1	
	MasterPact MTZ2 [1]	MTZ2 10 N1/H1/H2/L1 MTZ2 12 N1/H1/H2/L1 MTZ2 16 N1/H1/H2/L1	MTZ2 10 H1/H2/L1 MTZ2 12 H1/H2/L1 MTZ2 16 H1/H2/L1		MTZ2 10 L1 **MTZ2 12 L1** **MTZ2 16 L1**		

Type of Canalis busbar trunking KTA1600 / KTC1600

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS	NS1250N/H **NS1600N/H**		NS1250H **NS1600H**			
		NS1600b N/H NS2000N/H					
	MasterPact MTZ1	**MTZ1 12 H1/H2/H3** MTZ1 16 H1/H2/H3	**MTZ1 12 H2/H3** MTZ1 16 H2/H3	**MTZ1 12 H3** MTZ1 16 H3			
	MasterPact MTZ2 [1]	MTZ2 12 N1/H1/H2/L1 MTZ2 16 N1/H1/H2/L1 MTZ2 20 N1/H1/H2/H3/L1	MTZ2 12 H1/H2/L1 MTZ2 16 H1/H2/L1 MTZ2 20 H1/H2/H3/L1		MTZ2 12 L1 **MTZ2 16 L1** MTZ2 20 L1		

[1] MTZ2 H2 cover MTZ2 H2 and H2V.

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Canalis KTA / KTC
Ue: 380-415 V AC

Type of Canalis busbar trunking KTA1600 / KTC1600 reinforced short-circuit level

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS	NS1250N/H **NS1600N/H**		NS1250H **NS1600H**			
		NS1600b N/H NS2000N/H			**NS1600b H** NS2000H		
	MasterPact MTZ1	**MTZ1 12 H1/H2/H3** MTZ1 16 H1/H2/H3	**MTZ1 12 H2/H3** MTZ1 16 H2/H3	**MTZ1 12 H3** MTZ1 16 H3			
	MasterPact MTZ2 [1]	MTZ2 12 N1/H1/H2/L1 MTZ2 16 N1/H1/H2/L1 MTZ2 20 N1/H1/H2/H3/L1	MTZ2 12 H1/H2/L1 MTZ2 16 H1/H2/L1 MTZ2 20 H1/H2/H3/L1		MTZ2 12 H2/L1 MTZ2 16 H2/L1 MTZ2 20 H2/H3/L1	MTZ2 12 L1 **MTZ2 16 L1** MTZ2 20 L1	

Type of Canalis busbar trunking KTA2000 / KTC2000

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS	NS1600b N/H **NS2000N/H** NS2500N/H					
	MasterPact MTZ1	MTZ1 16 H1/H2/H3	MTZ1 16 H2/H3	MTZ1 16 H3			
	MasterPact MTZ2 [1]	MTZ2 16 N1/H1/H2/L1 MTZ2 20 N1/H1/H2/H3/L1	MTZ2 16 H1/H2/L1 MTZ2 20 H1/H2/H3/L1		MTZ2 16 L1 **MTZ2 20 L1**		
		MTZ2 25 H1/H2/H3					

Type of Canalis busbar trunking KTA2000 / KTC2000 reinforced short-circuit level

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS	NS1600b N/H **NS2000N/H**			NS1600b H **NS2000H**		
	MasterPact MTZ1	MTZ1 16 H1/H2/H3	MTZ1 16 H2/H3	MTZ1 16 H3			
	MasterPact MTZ2 [1]	MTZ2 16 N1/H1/H2/L1 **MTZ2 20 N1/H1/H2/H3/L1**	MTZ2 16 H1/H2/L1 **MTZ2 20 H1/H2/H3/L1**		MTZ2 16 H2/L1 **MTZ2 20 H2/H3/L1**		MTZ2 16 L1 **MTZ2 20 L1**
		MTZ2 25 H1/H2/H3			MTZ2 25 H2/H3		

Type of Canalis busbar trunking KTA2500 / KTC2500

Isc max. in kA rms		42 kA	50 kA	65 kA	80 kA	100 kA	150 kA
Type of circuit breaker	MasterPact MTZ2 [1]	MTZ2 20 H1/H2/H3/L1 **MTZ2 25 H1/H2/H3** MTZ2 32 H1/H2/H3			MTZ2 20 H2/H3/L1 **MTZ2 25 H2/H3** MTZ2 32 H2/H3	MTZ2 20 L1	MTZ2 20 L1

Type of Canalis busbar trunking KTA2500 / KTC2500 reinforced short-circuit level

Isc max. in kA rms		42 kA	50 kA	65 kA	80 kA	100 kA	110 kA
Type of circuit breaker	MasterPact MTZ2 [1]	MTZ2 20 H1/H2/H3/L1 **MTZ2 25 H1/H2/H3** MTZ2 32 H1/H2/H3			MTZ2 20 H2/H3/L1 **MTZ2 25 H2/H3** MTZ2 32 H2/H3		MTZ2 20 H3/L1 [2] **MTZ2 25 H3** MTZ2 32 H3

Type of Canalis busbar trunking KTA3200 / KTC3200

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	110 kA
Type of circuit breaker	MasterPact MTZ2 [1]	MTZ2 25 H1/H2/H3 **MTZ2 32 H1/H2/H3** MTZ2 40 H1/H2/H3			MTZ2 25 H2/H3 **MTZ2 32 H2/H3** MTZ2 40 H2/H3		
	MasterPact MTZ3	MTZ3 40 H1/H2					

Type of Canalis busbar trunking KTA3200 / KTC3200 reinforced short-circuit level

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	110 kA
Type of circuit breaker	MasterPact MTZ2 [1]	MTZ2 25 H1/H2/H3 **MTZ2 32 H1/H2/H3** MTZ2 40 H1/H2/H3			MTZ2 25 H2/H3 **MTZ2 32 H2/H3** MTZ2 40 H2/H3		MTZ2 25 H3 **MTZ2 32 H3** MTZ2 40 H3
	MasterPact MTZ3	MTZ3 40 H1/H2					MTZ3 40 H2

Type of Canalis busbar trunking KTA4000 / KTC4000

Isc max. in kA rms		42 kA	50 kA	65 kA	90 kA	100 kA	110 kA
Type of circuit breaker	MasterPact MTZ2 [1]	MTZ2 32 H1/H2/H3 **MTZ2 40 H1/H2/H3**			MTZ2 32 H2/H3 **MTZ2 40 H2/H3**		
	MasterPact MTZ3	MTZ3 40 H1/H2 MTZ3 50 H1/H2					

Type of Canalis busbar trunking KTA4000 / KTC4000 reinforced short-circuit level

Isc max. in kA rms		42 kA	50 kA	65 kA	90 kA	100 kA	120 kA
Type of circuit breaker	MasterPact MTZ2 [1]	MTZ2 32 H1/H2/H3 **MTZ2 40 H1/H2/H3**			MTZ2 32 H2/H3 **MTZ2 40 H2/H3**		MTZ2 32 H3 **MTZ2 40 H3**
	MasterPact MTZ3	MTZ3 40 H1/H2 MTZ3 50 H1/H2					MTZ3 40 H2 MTZ3 50 H2

Type of Canalis busbar trunking KTA5000 / KTA 5000 Reinforced short-circuit level

Isc max. in kA rms		42 kA	50 kA	65 kA	90 kA	100 kA	120 kA
Type of circuit breaker	MasterPact MTZ2 [1]		MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3		MTZ2 32 H2/H3 MTZ2 40 H2/H3		MTZ2 32 H3 MTZ2 40 H3
	MasterPact MTZ3		MTZ3 40 H1/H2 **MTZ3 50 H1/H2** MTZ3 63 H1/H2				MTZ3 40 H2 **MTZ3 50 H2** MTZ3 63 H2

Type of Canalis busbar trunking KTC5000

Isc max. in kA rms		42 kA	50 kA	65 kA	95 kA	100 kA	110 kA
Type of circuit breaker	MasterPact MTZ2 [1]	MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3			MTZ2 32 H2/H3 MTZ2 40 H2/H3		
	MasterPact MTZ3	MTZ3 40 H1/H2 **MTZ3 50 H1/H2** MTZ3 63 H1/H2					

[1] MTZ2 H2 cover MTZ2 H2 and H2V. **[2]** L1 up to 150kA.

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Canalis KTA / KTC
Ue: 380-415 V AC

Type of Canalis busbar trunking KTC5000 reinforced short-circuit level							
Isc max. in kA rms		**42 kA**	**50 kA**	**65 kA**	**90 kA**	**100 kA**	**120 kA**
Type of circuit breaker	MasterPact MTZ2 [1]		MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3		MTZ2 32H2/H3 MTZ2 40H2/H3		MTZ2 32 H3 MTZ2 40 H3
	MasterPact MTZ3			MTZ3 40 H1/H2 **MTZ3 50 H1/H2** MTZ3 63 H1/H2			MTZ3 40 H2 **MTZ3 50 H2** MTZ3 63 H2

Type of Canalis busbar trunking KTC6300 / KTC6300 Reinforced short-circuit level							
Isc max. in kA rms		**42 kA**	**50 kA**	**65 kA**	**90 kA**	**100 kA**	**120 kA**
Type of circuit breaker	MasterPact MTZ2 [1]		MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3		MTZ2 32 H2/H3 MTZ2 40 H2/H3		MTZ2 32 H3 MTZ2 40 H3
	MasterPact MTZ3			MTZ3 40 H1/H2 MTZ3 50 H1/H2 **MTZ3 63 H1/H2**			MTZ3 40 H2 MTZ3 50 H2 **MTZ3 63 H2**

[1] MTZ2 H2 cover MTZ2 H2 and H2V.

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Coordination tables between circuit breaker and Canalis electrical busbar trunking

Canalis KRA
Ue: 380-415 V AC

Type of Canalis busbar trunking KRA0800

Isc max. in kA rms		≤ 25 kA	50 kA	60 kA	70 kA	100 kA	150 kA
Type of circuit breaker	ComPact NSX	NSX400B/F/N/H/S/L NSX630B/F/N/H/S/L	NSX400N/H/S/L NSX630N/H/S/L	NSX400H/S/L NSX630H/S/L		NSX400S/L NSX630S/L	NSX400L NSX630L
	ComPact NS	NS630b N/H/L/LB **NS800N/H/L/LB** NS1000N/H/L	NS630b L/LB **NS800L/LB** NS1000L	NS630b LB NS800LB			
	MasterPact MTZ1	MTZ1 06 H1/H2/H3/L1 **MTZ1 08 H1/H2/H3/L1** MTZ1 10 H1/H2/H3/L1	MTZ1 06 L1 **MTZ1 08 L1** MTZ1 10 L1				
	MasterPact MTZ2 [1]	MTZ2 08 N1/H1/H2/L1 MTZ2 10 N1/H1/H2/L1					

Type of Canalis busbar trunking KRA1000

Isc max. in kA rms		≤ 25 kA	50 kA	60 kA	70 kA	100 kA	150 kA
Type of circuit breaker	ComPact NSX	NSX400B/F/N/H/S/L NSX630B/F/N/H/S/L	NSX400N/H/S/L NSX630N/H/S/L	NSX400H/S/L NSX630H/S/L		NSX400S/L NSX630S/L	NSX400L NSX630L
	ComPact NS	NS800N/H/L/LB **NS1000N/H/L** NS1250N/H	NS800L/LB **NS1000L**	NS800LB			
	MasterPact MTZ1	MTZ1 08 H1/H2/H3/L1 **MTZ1 10 H1/H2/H3/L1** MTZ1 12 H1/H2/H3	MTZ1 08 L1 **MTZ1 10 L1**				
	MasterPact MTZ2 [1]	MTZ2 08 N1/H1/H2/L1 **MTZ2 10 N1/H1/H2/L1** MTZ2 12 N1/H1/H2/L1					

Type of Canalis busbar trunking KRA1250

Isc max. in kA rms		≤ 42 kA	50 kA	60 kA	70 kA	100 kA	150 kA
Type of circuit breaker	ComPact NSX	NSX630B/F/N/H/S/L	NSX630N/H/S/L	NSX630H/S/L	NSX630S/L		NSX630L
	ComPact NS	NS1000N/H/L **NS1250N/H** NS1600N/H		NS1000L			
	MasterPact MTZ1	MTZ1 10H1/H2/H3/L1 **MTZ1 12H1/H2/H3** MTZ1 16H1/H2/H3	MTZ1 10 H2/H3/L1 **MTZ1 12 H2/H3** MTZ1 16 H2/H3	MTZ1 10 L1			
	MasterPact MTZ2 [1]	MTZ2 10 N1/H1/H2/L1 **MTZ2 12 N1/H1/H2/L1** MTZ2 16 N1/H1/H2/L1	MTZ2 10 H1/H2/L1 **MTZ2 12 H1/H2/L1** MTZ2 16 H1/H2/L1	MTZ2 10 L1 **MTZ2 12 L1** MTZ2 16 L1			

Type of Canalis busbar trunking KRA1600

Isc max. in kA rms		42 kA	50 kA	60 kA	70 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS ⩽ 1600	NS1250N/H **NS1600N/H**					
	ComPact NS ⩾ 1600b	**NS1600b N/H** **NS2000N/H**					
	MasterPact MTZ1	MTZ1 12 H1/H2/H3 **MTZ1 16 H1/H2/H3**	MTZ1 12 H2/H3 **MTZ1 16 H2/H3**				
	MasterPact MTZ2 [1]	MTZ2 10 N1/H1/H2/L1 MTZ2 12 N1/H1/H2/L1 **MTZ2 16 N1/H1/H2/L1**	MTZ2 10 H1/H2/L1 MTZ2 12 H1/H2/L1 **MTZ2 16 H1/H2/L1**	MTZ2 10 L1 MTZ2 12 L1 **MTZ2 16 L1**			

Type of Canalis busbar trunking KRA2000

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS ⩽ 1600		NS1600N/H	NS1600H			
	ComPact NS ⩾ 1600b	NS1600b N/H **NS2000N/H** NS2500N/H					
	MasterPact MTZ1	MTZ1 16 H1/H2/H3	MTZ1 16 H2/H3	MTZ1 16 H3			
	MasterPact MTZ2 [1]	MTZ2 16 N1/H1/H2/L1 **MTZ2 20 N1** MTZ2 25 H1/H2/H3	MTZ2 16 H1/H2/L1 **MTZ2 20 H1/H2/L1** MTZ2 25 H1/H2/H3		MTZ2 16 L1 **MTZ2 20 L1**		

Type of Canalis busbar trunking KRA2500

Isc max. in kA rms		42 kA	50 kA	65 kA	80 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS ⩾ 1600b	NS2000N/H **NS2500N/H** NS3200N/H			NS2000H **NS2500H** NS3200H		
	MasterPact MTZ2 [1]	MTZ2 20 N1	MTZ2 20 H1/H2/H3/L1		MTZ2 20 H2/H3/L1	MTZ2 20 L1	
		MTZ2 25 H1/H2/H3 MTZ2 32 H1/H2/H3			**MTZ2 25 H2/H3** MTZ2 32 H2/H3		

Type of Canalis busbar trunking KRA3200

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS ⩾ 1600b	NS2500N/H **NS3200N/H**			NS2500H **NS3200H**		
	MasterPact MTZ2 [1]	MTZ2 25 H1/H2/H3 **MTZ2 32 H1/H2/H3** MTZ2 40 H1/H2/H3			MTZ2 25 H2/H3 **MTZ2 32 H2/H3** MTZ2 40 H2/H3		
	MasterPact MTZ3	MTZ3 40 H1/H2					

Type of Canalis busbar trunking KRA4000

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS	NS3200N/H			NS3200H		
	MasterPact MTZ2 [1]	MTZ2 32 H1/H2/H3 **MTZ2 40 H1/H2/H3**			MTZ2 32 H2/H3 **MTZ2 40 H2/H3**		
	MasterPact MTZ3	MTZ3 40 H1/H2 MTZ3 50 H1/H2					

Type of Canalis busbar trunking KRA5000

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
	MasterPact MTZ2 [1]	MTZ2 40 H1/H2/H3			MTZ2 40 H2/H3		
	MasterPact MTZ3	MTZ3 40 H1/H2 **MTZ3 50 H1/H2** MTZ3 63 H1/H2					

[1] MTZ2 H2 cover MTZ2 H2 and H2V.

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Canalis KRC
Ue: 380-415 V AC

MasterPact MTZ2 [1]

Isc max. in kA rms		≤ 36 kA	50 kA	60 kA	70 kA	100 kA	150 kA
Type of circuit breaker	ComPact NSX	NSX400B/F/N/H/S/L NSX630B/F/N/H/S/L	NSX400N/H/S/L NSX630N/H/S/L	NSX400H/S/L NSX630H/S/L		NSX400S/L NSX630S/L	NSX400L NSX630L
	ComPact NS	NS800N/H/L/LB **NS1000N/H/L** NS1250N/H	NS800L/LB NS1000L				
	MasterPact MTZ1	MTZ1 08 H1/H2/H3/L1 **MTZ1 10 H1/H2/H3/L1** MTZ1 12 H1/H2/H3	MTZ1 08 L1 **MTZ1 10 L1**				
	MasterPact MTZ2 [1]	MTZ2 08 N1/H1/H2/L1 **MTZ2 10 N1/H1/H2/L1** MTZ2 12 N1/H1/H2/L1					

Type of Canalis busbar trunking KRC1350

Isc max. in kA rms		≤ 36 kA	50 kA	60 kA	70 kA	100 kA	150 kA
	ComPact NSX	NSX630B/F/N/H/S/L	NSX630N/H/S/L	NSX630H/S/L	NSX630S/L		NSX630L
	ComPact NS	NS1000N/H/L NS1250N/H NS1600N/H	NS1000L				
	MasterPact MTZ1	MTZ1 10 H1/H2/H3/L1 **MTZ1 12 H1/H2/H3** MTZ1 16 H1/H2/H3	MTZ1 10 L1				
	MasterPact MTZ2 [1]	MTZ2 10 N1/H1/H2/L1 **MTZ2 12 N1/H1/H2/L1** MTZ2 16 N1/H1/H2/L1					

Type of Canalis busbar trunking KRC1600

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS ≤ 1600	NS1250N/H **NS1600N/H**		NS1250H **NS1600H**			
	ComPact NS ≥ 1600b	NS1600b N/H NS2000N/H					
	MasterPact MTZ1	MTZ1 12 H1 **MTZ1 16 H1**	MTZ1 12 H2 **MTZ1 16 H2**	MTZ1 12 H3 **MTZ1 16 H3**			
	MasterPact MTZ2 [1]	MTZ2 12 N1 **MTZ2 16 N1** MTZ2 20 N1		MTZ2 12 H1 **MTZ2 16 H1** MTZ2 20 H1	MTZ2 12 L1 **MTZ2 16 L1** MTZ2 20 L1		

Type of Canalis busbar trunking KRC2000

Isc max. in kA rms		42 kA	50 kA	65 kA	80 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS ≤ 1600	NS1600N/H		NS1600H			
	ComPact NS ≥ 1600b	NS1600b N **NS2000N** NS2500N			NS1600b H **NS2000H** NS2500H		
	MasterPact MTZ1	MTZ1 16 H1/H2/H3	MTZ1 16 H2/H3	MTZ1 16 H3			
	MasterPact MTZ2 [1]	MTZ2 16 N1/H1/H2/L1 **MTZ2 20 N1/H1/H2/H3/L1** MTZ2 25 H1/H2/H3	MTZ2 16 H1/H2/L1 **MTZ2 20 H1/H2/H3/L1** MTZ2 25 H1/H2/H3		MTZ2 16 H2/L1 **MTZ2 20 H2/H3/L1** MTZ2 25 H2/H3	MTZ2 16 L1 **MTZ2 20 L1**	

Type of Canalis busbar trunking KRC2500

Isc max. in kA rms		42 kA	50 kA	65 kA	80 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS ≥ 1600b		NS2000N/H **NS2500N/H** NS3200N/H		NS2000H **NS2500H** NS3200H		
	MasterPact MTZ2 [1]	**MTZ2 20 N1**	MTZ2 20 H1/H2/H3/L1		MTZ2 20 H2/H3/L1	MTZ2 20 L1	
		MTZ2 25 H1/H2/H3 MTZ2 32 H1/H2/H3			**MTZ2 25 H2/H3** MTZ2 32 H2/H3		

Type of Canalis busbar trunking KRC3200

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS ≥ 1600b		NS2500N/H **NS3200N/H**		NS2500H **NS3200H**		
	MasterPact MTZ2 [1]		MTZ2 25 H1/H2/H3 **MTZ2 32 H1/H2/H3** MTZ2 40 H1/H2/H3		MTZ2 25 H2/H3 **MTZ2 32 H2/H3** MTZ2 40 H2/H3		
	MasterPact MTZ3		MTZ3 40 H1/H2				

Type of Canalis busbar trunking KRC4000

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	150 kA
Type of circuit breaker	ComPact NS		NS3200N/H		NS3200H		
	MasterPact MTZ2 [1]		MTZ2 32 H1/H2/H3 **MTZ2 40 H1/H2/H3**		MTZ2 32 H2/H3 **MTZ2 40 H2/H3**		
	MasterPact MTZ3		MTZ3 40 H1/H2 MTZ3 50 H1/H2				

Type of Canalis busbar trunking KRC5000

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	125 kA
	MasterPact MTZ2 [1]		MTZ2 40 H1/H2/H3		MTZ2 40 H2/H3		MTZ2 40 H3
	MasterPact MTZ3			MTZ3 40 H1/H2 **MTZ3 50 H1/H2** MTZ3 63 H1/H2			MTZ3 40 H2 **MTZ3 50 H2** MTZ3 63 H2

Type of Canalis busbar trunking KRC6300

Isc max. in kA rms		42 kA	50 kA	65 kA	85 kA	100 kA	125 kA
	MasterPact MTZ2 [1]		MTZ2 40 H1/H2/H3		MTZ2 40 H2/H3		MTZ2 40H3
	MasterPact MTZ3			MTZ3 40 H1/H2 MTZ3 50 H1/H2 **MTZ3 63 H1/H2**			MTZ3 40H2 MTZ3 50H2 **MTZ3 63H2**

[1] MTZ2 H2 cover MTZ2 H2 and H2V.

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Canalis KSA
Ue: 660-690 V AC

Type of Canalis busbar trunking KSA100								
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**45 kA**	**75 kA**	**100 kA**
Type of circuit breaker	ComPact NSX	**NSX100N/H/S/L** NSX160N/H/S/L NSX250N/H/S/L	**NSX100S/L** NSX160S/L NSX250S/L	**NSX100L**				
Type of Canalis busbar trunking KSA160								
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**45 kA**	**75 kA**	**100 kA**
Type of circuit breaker	ComPact NSX	NSX100N/H/S/L **NSX160N/H/S/L** NSX250N/H/S/L	NSX100S/L **NSX160S/L** NSX250S/L	NSX100L **NSX160L** NSX250L	**NSX100R**			
Type of Canalis busbar trunking KSA250								
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**45kA**	**75 kA**	**100 kA**
Type of circuit breaker	ComPact NSX	NSX160N/H/S/L **NSX250N/H/S/L** NSX400F/N/H/S/L	NSX160S/L **NSX250S/L** NSX400H/S/L	NSX160L **NSX250L** NSX400H/S/L	**NSX250R**		**NSX250HB1**	**NSX250HB2**
Type of Canalis busbar trunking KSA400								
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**45kA**	**75 kA**	**100 kA**
Type of circuit breaker	ComPact NSX	NSX250N/H/S/L	NSX250S/L	NSX250L	NSX250R		NSX250HB1	NSX250HB2
		NSX400F/N/H/S/L NSX630F/N/H/S/L		**NSX400H/S/L** NSX630H/S/L	**NSX400S/L** NSX630S/L	**NSX400R** **NSX630R**	**NSX400HB1**	**NSX400HB2**
	ComPact NS	NS630b N/H/LB			NS630b LB			
Type of Canalis busbar trunking KSA500								
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**45 kA**	**75 kA**	**100 kA**
Type of circuit breaker	ComPact NSX	NSX400F/N/H/S/L **NSX400F/N/H/S/L**		NSX400H/S/L **NSX630H/S/L**	NSX400S/L **NSX630S/L**	NSX400R **NSX630R**	NSX400HB1 **NSX630HB1**	NSX400HB2 **NSX630HB2**
	ComPact NS	NS630b N/H/LB NS800N/H/LB				NS630b LB NS800LB		
Type of Canalis busbar trunking KSA630								
Isc max. in kA rms		**10 kA**	**15 kA**	**20 kA**	**25 kA**	**45 kA**	**75 kA**	**100 kA**
Type of circuit breaker	ComPact NSX	NSX400F/N/H/S/L **NSX630F/N/H/S/L**	NSX400H/S/L **NSX630H/S/L**	NSX400H/S/L **NSX630H/S/L**	NSX400S/L **NSX630S/L**	NSX400R **NSX630R**	NSX400HB1 **NSX630HB1**	NSX400HB2 **NSX630HB2**
	ComPact NS	NS630b N/H/LB NS800N/H/LB				NS630b LB NS800LB		
Type of Canalis busbar trunking KSA800								
Isc max. in kA rms		**25 kA**	**30 kA**	**35 kA**	**45 kA**	**65 kA**	**75 kA**	**100 kA**
Type of circuit breaker	ComPact NSX	NSX400S/L/R/HB1/HB2 NSX630S/L/R/HB1/HB2	NSX400L/R/HB1/HB2 NSX630L/R/HB1/HB2	NSX400R/HB1/HB2 NSX630R/HB1/HB2		NSX400HB1/HB2 NSX630HB1/HB2		NSX400HB2 NSX630HB2
	ComPact NS	NS630b N/H/LB **NS800N/H/LB** NS1000N/H		NS630b H/LB **NS800H/LB** NS1000H	NS630b LB **NS800LB**			
	MasterPact MTZ1	MTZ1 06 H1/H2/L1 **MTZ1 08 H1/H2/L1** MTZ1 10 H1/H2/L1	MTZ1 06 H1/H2 MTZ1 08 H1/H2 MTZ1 10 H1/H2					
	MasterPact MTZ2	**MTZ2 08 N1/H1/H2/L1** MTZ2 10 N1/H1/H2/L1						
Type of Canalis busbar trunking KSA1000								
Isc max. in kA rms		**25 kA**	**30 kA**	**35 kA**	**45 kA**	**65 kA**	**75 kA**	**100 kA**
Type of circuit breaker	ComPact NSX	NSX400S/L/R/HB1/HB2 NSX630S/L/R/HB1/HB2	NSX400L/R/HB1/HB2 NSX630L/R/HB1/HB2	NSX400R/HB1/HB2 NSX630R/HB1/HB2		NSX400HB1/HB2 NSX630HB1/HB2		NSX400HB2 NSX630HB2
	ComPact NS	NS630b N/H/LB NS800N/H/LB **NS1000N/H**		NS630b H/LB NS800H/LB **NS1000H**	NS630b LB **NS800LB**			
	MasterPact MTZ1	MTZ1 08 H1/H2/L1 MTZ1 10 H1/H2/L1	MTZ1 08 H1/H2 MTZ1 10 H1/H2					
		MTZ1 12 H1/H2						
	MasterPact MTZ2	MTZ2 08 N1/H1/H2/L1 MTZ2 10 N1/H1/H2/L1 MTZ2 12 N1/H1/H2/L1						

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Canalis KTA, KTC
Ue: 660-690 V AC

Type of Canalis busbar trunking KTA1000 / KTC1000

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	75 kA	100 kA
Type of circuit breaker	ComPact NSX	NSX400S/L/R/HB1/HB2 NSX630S/L/R/HB1/HB2	NSX400L/R/HB1/HB2 NSX630L/R/HB1/HB2	NSX400R/HB1/HB2 NSX630R/HB1/HB2		NSX400HB1/HB2 NSX630HB1/HB2		NSX400HB2 NSX630HB2
	ComPact NS	NS630b N/H/LB NS800N/H/LB **NS1000N/H**		NS630b H/LB NS800H/LB **NS1000H**	NS630b LB **NS800LB**			
	MasterPact MTZ1	MTZ1 08 H1/H2/L1 **MTZ1 10 H1/H2/L1** MTZ1 12 H1/H2	MTZ1 08 H1/H2 **MTZ1 10 H1/H2**					
	MasterPact MTZ2	MTZ2 08 N1/H1/H2/L1 **MTZ2 10 N1/H1/H2/L1** MTZ2 12 N1/H1/H2/L1			MTZ2 08 H1/H2/L1 **MTZ2 10 H1/H2/L1** MTZ2 12 H1/H2/L1			

Type of Canalis busbar trunking KTA1000 / KTC1000 reinforced short-circuit level

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	75 kA	100 kA
Type of circuit breaker	ComPact NSX	NSX400S/L/R/HB1/HB2 NSX630S/L/R/HB1/HB2	NSX400L/R/HB1/HB2 NSX630L/R/HB1/HB2	NSX400R/HB1/HB2 NSX630R/HB1/HB2		NSX400HB1/HB2 NSX630HB1/HB2		NSX400HB2 NSX630HB2
	ComPact NS	NS800N/H/LB **NS1000N/H** NS1250N/H		NS800H/LB **NS1000H** NS1250H	**NS800LB**			
	MasterPact MTZ1	MTZ1 08 H1/H2/L1 **MTZ1 10 H1/H2/L1** MTZ1 12 H1/H2	MTZ1 08 H1/H2 **MTZ1 10 H1/H2**					
	MasterPact MTZ2	MTZ2 08 N1/H1/H2/L1 **MTZ2 10 N1/H1/H2/L1** MTZ2 12 N1/H1/H2/L1			MTZ2 08 H1/H2/L1 **MTZ2 10 H1/H2/L1** MTZ2 12 H1/H2/L1		MTZ2 08 HL1 **MTZ2 10 L1** MTZ2 12 L1	

Type of Canalis busbar trunking KTA1250 / KTC1350

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	75 kA	100 kA
Type of circuit breaker	ComPact NS	NS800N/H/LB NS1000N/H **NS1250N/H** NS1600N/H		NS800H/LB NS1000H **NS1250H** NS1600H		**NS800LB**		
	ComPact NS > 1600b	NS1600b N						
	MasterPact MTZ1	MTZ1 08 H1/H2/L1 MTZ1 12 H1/H2 MTZ1 16 H1/H2	MTZ1 08 H1/H2					
	MasterPact MTZ2	MTZ2 10 N1/H1/H2/L1 MTZ2 12 N1/H1/H2/L1 MTZ2 16 N1/H1/H2/L1			MTZ2 10 H1/H2/L1 MTZ2 12 H1/H2/L1 MTZ2 16 H1/H2/L1			

Type of Canalis busbar trunking KTA1250 / KTC1350 reinforced short-circuit level

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	75 kA	100 kA
Type of circuit breaker	ComPact NS	NS800N/H/LB NS1000N/H **NS1250N/H** NS1600N/H		NS800H/LB NS1000H **NS1250H** NS1600H		**NS800LB**		
	ComPact NS > 1600b	NS1600b N						
	MasterPact MTZ1	MTZ1 08 H1/H2/L1 **MTZ1 12 H1/H2** MTZ1 16 H1/H2	MTZ1 08 H1/H2					
	MasterPact MTZ2	MTZ2 10 N1/H1/H2/L1 **MTZ2 12 N1/H1/H2/L1** MTZ2 16 N1/H1/H2/L1			MTZ2 10 H1/H2/L1 **MTZ2 12 H1/H2/L1** MTZ2 16 H1/H2/L1		MTZ2 10 L1 **MTZ2 12 L1** MTZ2 16 L1	

Type of Canalis busbar trunking KTA1600 / KTC1600

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	ComPact NS	NS1250N/H **NS1600N/H**		NS1250H **NS1600H**				
	ComPact NS > 1600b	NS1600b N NS2000N						
	MasterPact MTZ1	MTZ1 12 H1/H2 MTZ1 16 H1/H2						
	MasterPact MTZ2	MTZ2 12 N1/H1/H2/L1 **MTZ2 16 N1/H1/H2/L1** MTZ2 20 N1/H1/H2/H3/L1			MTZ2 12 H1/H2/L1 **MTZ2 16 H1/H2/L1** MTZ2 20 H1/H2/H3/L1		MTZ2 12 L1 **MTZ2 16 L1** MTZ2 20 L1	

Type of Canalis busbar trunking KTA1600 / KTC1600 reinforced short-circuit level

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	ComPact NS	NS1250N/H **NS1600N/H**		NS1250H **NS1600H**				
	ComPact NS > 1600b	NS1600b N NS2000N						
	MasterPact MTZ1	MTZ1 12 H1/H2 MTZ1 16 H1/H2						
	MasterPact MTZ2	MTZ2 12 N1/H1/H2/L1 **MTZ2 16 N1/H1/H2/L1** MTZ2 20 N1/H1/H2/H3/L1			MTZ2 12 H1/H2/L1 **MTZ2 16 H1/H2/L1** MTZ2 20 H1/H2/H3/L1		MTZ2 12 H2/L1 MTZ2 16 H2/L1 MTZ2 20 H2/H3/L1	MTZ2 12 L1 **MTZ2 16 L1** MTZ2 20 L1

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Canalis KTA, KTC
Ue: 660-690 V AC

Type of Canalis busbar trunking KTA2000 / KTC2000

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	ComPact NS	NS1600N/H		NS1600H				
	ComPact NS > 1600b	NS1600b N NS2000N NS2500N						
	MasterPact MTZ1	MTZ1 16 H1/H2						
	MasterPact MTZ2	MTZ2 16 N1/H1/H2/L1 **MTZ2 20 N1/H1/H2/H3/L1**			MTZ2 16 H1/H2/L1 **MTZ2 20 H1/H2/H3/L1**		MTZ2 16 L1 **MTZ2 20 L1**	
		MTZ2 25 H1/H2/H3						

Type of Canalis busbar trunking KTA2000 / KTC2000 reinforced short-circuit level

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	ComPact NS	**NS1600N/H**		**NS1600H**				
	ComPact NS > 1600b	NS1600b N NS2000N NS2500N						
	MasterPact MTZ1	MTZ1 16 H1/H2						
	MasterPact MTZ2	MTZ2 16 N1/H1/H2/L1 **MTZ2 20 N1/H1/H2/H3/L1**			MTZ2 16 H1/H2/L1 **MTZ2 20 H1/H2/H3/L1**		MTZ2 16L1 **MTZ2 20 H2/H3/L1** MTZ2 25 H2/H3	MTZ2 16 L1 **MTZ2 20 H3/L1** MTZ2 25 H3
		MTZ2 25 H1/H2/H3						

Type of Canalis busbar trunking KTA2500 / KTC2500

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	80 kA	100 kA
Type of circuit breaker	ComPact NS	**NS1600N/H**		**NS1600H**				
	ComPact NS > 1600b	NS2000N NS2500N NS3200N						
	MasterPact MTZ1	MTZ1 16 H1/H2						
	MasterPact MTZ2	MTZ2 20 N1/H1/H2/H3/L1			MTZ2 20 H1/H2/H3/L1		MTZ2 20 H2/H3/L1 MTZ2 25 H2/H3	MTZ2 20 L1
		MTZ2 25 H1/H2/H3 MTZ2 32 H1/H2/H3					MTZ2 32 H2/H3	

Type of Canalis busbar trunking KTA2500 / KTC2500 reinforced short-circuit level

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	ComPact NS	NS1600N/H		NS1600H				
	ComPact NS > 1600b	NS2000N **NS2500N** NS3200N						
	MasterPact MTZ1	MTZ1 16 H1/H2						
	MasterPact MTZ2	MTZ2 20 N1/H1/H2/H3/L1			MTZ2 20 H1/H2/H3/L1		MTZ2 20 H2/H3/L1	MTZ2 20 H3/L1
		MTZ2 25 H1/H2/H3 MTZ2 32 H1/H2/H3					MTZ2 25 H2/H3 MTZ2 32 H2/H3	MTZ2 25 H3 MTZ2 32 H3

Type of Canalis busbar trunking KTA3200 / KTC3200

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	ComPact NS > 1600b	NS2000N NS3200N						
	MasterPact MTZ2	**MTZ2 32 H1/H2/H3** MTZ2 40 H1/H2/H3					**MTZ2 32 H2/H3** MTZ2 40 H2/H3	
	MasterPact MTZ3	MTZ3 40 H1/H2						

Type of Canalis busbar trunking KTA3200 / KTC3200 reinforced short-circuit level

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	ComPact NS > 1600b	NS2000N NS3200N						
	MasterPact MTZ2	**MTZ2 32 H1/H2/H3** MTZ2 40 H1/H2/H3					**MTZ2 32 H2/H3** MTZ2 40 H2/H3	**MTZ2 32 H3** MTZ2 40 H3
	MasterPact MTZ3	MTZ3 40 H1/H2						

Type of Canalis busbar trunking KTA4000 / KTC4000

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	ComPact NS > 1600b	NS3200N						
	MasterPact MTZ2	MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3					MTZ2 32 H2/H3 MTZ2 40 H2/H3	
	MasterPact MTZ3	**MTZ3 40 H1/H2** MTZ3 50 H1/H2						

Type of Canalis busbar trunking KTA4000 / KTC4000 reinforced short-circuit level

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	95 kA	100 kA
Type of circuit breaker	ComPact NS	NS3200N							
	MasterPact MTZ2	MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3					MTZ2 32 H2/H3 MTZ2 40 H2/H3	MTZ2 32 H3 MTZ2 40 H3	
	MasterPact MTZ3	**MTZ3 40 H1/H2** MTZ3 50 H1/H2 MTZ3 63 H1/H2							

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Canalis KTA, KTC
Ue: 660-690 V AC

Type of Canalis busbar trunking KTC5000				
Isc max. in kA rms		**65 kA**	**85 kA**	**95 kA**
Type of circuit breaker	MasterPact MTZ2	MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3	MTZ2 32 H2/H3 MTZ2 40 H2/H3	MTZ2 32 H3 MTZ2 40 H3
	MasterPact MTZ3	MTZ3 40 H1/H2 **MTZ3 50 H1/H2** MTZ3 63 H1/H2		
Type of Canalis busbar trunking KTA5000 / KTC5000 Reinforced short-circuit				
Isc max. in kA rms		**65 kA**	**85 kA**	**100 kA**
Type of circuit breaker	MasterPact MTZ2	MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3	MTZ2 32 H2/H3 MTZ2 40 H2/H3	MTZ2 32 H3 MTZ2 40 H3
	MasterPact MTZ3	MTZ3 40 H1/H2 **MTZ3 50 H1/H2** MTZ3 63 H1/H2		
Type of Canalis busbar trunking KTC6300				
Isc max. in kA rms		**65 kA**	**85 kA**	**100 kA**
Type of circuit breaker	MasterPact MTZ2	MTZ2 40 H1/H2/H3	MTZ2 40 H2/H3	MTZ2 40 H3
	MasterPact MTZ3	MTZ3 40 H1/H2 MTZ3 50 H1/H2 **MTZ3 63 H1/H2**		

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Canalis KRA
Ue: 660-690 V AC

Type of Canalis busbar trunking KRA0800

Isc max. in kA rms		25 kA	30 kA	36 kA	45 kA	65 kA	75 kA	100 kA
Type of circuit breaker	ComPact NSX	NSX400S/L/R/HB1/HB2 NSX630S/L/R/HB1/HB2	NSX400L/R/HB1/HB2 NSX630L/R/HB1/HB2	NSX400R/HB1/HB2 NSX630R/HB1/HB2		NSX400HB1/HB2 NSX630HB1/HB2		NSX400HB2 NSX630HB2
	ComPact NS	NS630b N/H/LB **NS800N/H/LB** NS1000N/H	NS630b LB **NS800LB**					
	MasterPact MTZ1	MTZ1 06 H1/H2/L1 **MTZ1 08 H1/H2/L1** MTZ1 10 H1/H2/L1						
	MasterPact MTZ2	**MTZ2 08N1/H1/H2/L1** MTZ2 10N1/H1/H2/L1						

Type of Canalis busbar trunking KRA1000

Isc max. in kA rms		25 kA	30 kA	36 kA	45 kA	65 kA	75 kA	100 kA
Type of circuit breaker	ComPact NSX	NSX400S/L/R/HB1/HB2 NSX630S/L/R/HB1/HB2	NSX400L/R/HB1/HB2 NSX630L/R/HB1/HB2	NSX400R/HB1/HB2 NSX630R/HB1/HB2		NSX400HB1/HB2 NSX630HB1/HB2		NSX400HB2 NSX630HB2
	ComPact NS	NS800N/H/LB NS1000N/H NS1250N/H	NS800LB					
	MasterPact MTZ1	MTZ1 08 H1/H2/L1 **MTZ1 10 H1/H2/L1** MTZ1 12 H1/H2						
	MasterPact MTZ2	MTZ2 08 N1/H1/H2/L1 **MTZ2 10 N1/H1/H2/L1** MTZ2 12 N1/H1/H2/L1						

Type of Canalis busbar trunking KRA1250

Isc max. in kA rms		25 kA	30 kA	35 kA	42 kA	50 kA	75 kA	100 kA
Type of circuit breaker	ComPact NSX	NSX630H/S/L	NSX630S/L/R/HB1/HB2	NSX630L/R/HB1/HB2	NSX630R/HB1/HB2	NSX630HB1/HB2		NSX630HB2
	ComPact NS	NS1000N/H NS1250N/H NS1600N/H		NS1000H NS1250H NS1600H		NS800LB		
	MasterPact MTZ1	MTZ1 10 H1/H2/L1	MTZ1 10 H1/H2 **MTZ1 12 H1/H2** MTZ1 16 H1/H2					
	MasterPact MTZ2	MTZ2 10 N1/H1/H2/L1 **MTZ2 12 N1/H1/H2/L1** MTZ2 16 N1/H1/H2/L1				MTZ2 10 H1/H2/L1 **MTZ2 12 H1/H2/L1** MTZ2 16 H1/H2/L1		

Type of Canalis busbar trunking KRA1600

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	75 kA	100 kA
Type of circuit breaker	ComPact NS	NS1250N/H NS1600N/H		NS1250H NS1600H				
	ComPact NS ⩾ 1600b	NS1600b N NS2000N						
	MasterPact MTZ1	**MTZ1 12 H1/H2** MTZ1 16 H1/H2						
	MasterPact MTZ2	MTZ2 12 N1/H1/H2/L1 **MTZ2 16 N1/H1/H2/L1** MTZ2 20 N1/H1/H2/H3/L1			MTZ2 12 H1/H2/L1 **MTZ2 16 H1/H2/L1** MTZ2 20 H1/H2/H3/L1			

Type of Canalis busbar trunking KRA2000

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	80 kA	100 kA
Type of circuit breaker	ComPact NS	NS1600N/H		NS1600H				
	ComPact NS ⩾ 1600b	NS1600b N NS2000N NS2500N						
	MasterPact MTZ1	MTZ1 16 H1/H2						
	MasterPact MTZ2	MTZ2 16 N1/H1/H2/L1 **MTZ2 20 N1/H1/H2/H3/L1** MTZ2 25 H1/H2/H3			MTZ2 16 H1/H2/L1 **MTZ2 20 H1/H2/H3/L1** MTZ2 25 H1/H2/H3		MTZ2 16 L1 **MTZ2 20 L1**	

Type of Canalis busbar trunking KRA2500

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	80 kA	100 kA
Type of circuit breaker	ComPact NS ⩾ 1600b			NS2000N NS2500N NS3200N				
	MasterPact MTZ2	MTZ2 20 N1/H1/H2/H3/L1			MTZ2 20 H1/H2/H3/L1		MTZ2 20 H2/H3 **MTZ2 25 H2/H3** MTZ2 32 H2/H3	MTZ2 20 L1
		MTZ2 25 H1/H2/H3 MTZ2 32 H1/H2/H3						

Type of Canalis busbar trunking KRA3200

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	ComPact NS > 1600b			NS2500N **NS3200N**				
	MasterPact MTZ2	MTZ2 25 H1/H2/H3 **MTZ2 32 H1/H2/H3** MTZ2 40 H1/H2/H3					MTZ2 25 H2/H3 **MTZ2 32 H2/H3** MTZ2 40 H2/H3	MTZ2 25 H3 **MTZ2 32 H3** MTZ2 40 H3
	MasterPact MTZ3	MTZ3 40 H1/H2						

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Canalis KRA, KRC
Ue: 660-690 V AC

Type of Canalis busbar trunking KRA4000

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	ComPact NS ≥ 1600b	NS3200N						
	MasterPact MTZ2	MTZ2 32 H1/H2/H3 **MTZ2 40 H1/H2/H3**					MTZ2 32 H2/H3 **MTZ2 40 H2/H3**	MTZ2 32 H3 **MTZ2 40 H3**
	MasterPact MTZ3	**MTZ2 40 H1/H2/H3** MTZ3 50 H1/H2						

Type of Canalis busbar trunking KRA5000

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	85 kA	100 kA
Type of circuit breaker	MasterPact MTZ1	MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3					MTZ2 32 H2/H3 MTZ2 40 H2/H3	MTZ2 32 H3 MTZ2 40 H3
	MasterPact MTZ2	MTZ3 40 H1/H2 **MTZ3 50 H1/H2** MTZ3 63 H1/H2						

Type of Canalis busbar trunking KRC1000

Isc max. in kA rms		25 kA	30 kA	36 kA	45 kA	65 kA	75 kA	100 kA
Type of circuit breaker	ComPact NSX	NSX400S/L/R/HB1/HB2 NSX630S/L/R/HB1/HB2	NSX400S/L/R/HB1/HB2 NSX630S/L/R/HB1/HB2	NSX400R/HB1/HB2 NSX630R/HB1/HB2		NSX400HB1/HB2 NSX630HB1/HB2		NSX400HB2 NSX630HB2
	ComPact NS	NS800N/H/LB **NS1000N/H** NS1250N/H	NS800N/H/LB **NS1000N/H** NS1250N/H	NS800H/LB **NS1000H** NS1250H	NS800LB			
	MasterPact MTZ1	MTZ1 08 H1/H2/L1 **MTZ1 10H1/H2/L1**	MTZ1 08 H1/H2 MTZ1 10 H1/H2					
		MTZ1 12 H1/H2						
	MasterPact MTZ2	MTZ2 08 N1/H1/H2/L1 **MTZ2 10 N1/H1/H2/L1** MTZ2 12 N1/H1/H2/L1						

Type of Canalis busbar trunking KRC1350

Isc max. in kA rms		25 kA	30 kA	35 kA	45 kA	65 kA	75 kA	100 kA
Type of circuit breaker	ComPact NSX	NSX630H/S/L	NSX630S/L/R/HB1/HB2	NSX630L/R/HB1/HB2	NSX630R/HB1/HB2	NSX630HB1/HB2		NSX630HB2
	ComPact NS	NS1000N/H **NS1250N/H** **NS1600N/H**		NS1000H **NS1250H** **NS1600H**	NS800LB			
	MasterPact MTZ1	MTZ1 10 H1/H2/L1	MTZ1 10 H1/H2					
		MTZ1 12 H1/H2 **MTZ1 16 H1/H2**						
	MasterPact MTZ2	MTZ2 10 N1/H1/H2/L1 **MTZ2 12 N1/H1/H2/L1** **MTZ2 16 N1/H1/H2/L1**						

Type of Canalis busbar trunking KRC1600

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	75 kA	100 kA
Type of circuit breaker	ComPact NS	NS1250N/H NS1600N/H		NS1250H NS1600H				
	ComPact NS ≥ 1600b	NS1600b N NS2000N						
	MasterPact MTZ1	**MTZ1 12 H1/H2** MTZ1 16 H1/H2						
	MasterPact MTZ2	MTZ2 12 N1/H1/H2/L1 **MTZ2 16 N1/H1/H2/L1** MTZ2 20 N1/H1/H2/H3/L1			MTZ2 12 H1/H2/L1 **MTZ2 16 H1/H2/L1** MTZ2 20 H1/H2/H3/L1		MTZ2 12 L1 **MTZ2 16 L1** MTZ2 20 L1	

Type of Canalis busbar trunking KRC2000

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	80 kA	100 kA
Type of circuit breaker	ComPact NS	NS1600N/H		NS1600H				
	ComPact NS ≥ 1600b	NS1600b N NS2000N NS2500N						
	MasterPact MTZ1	MTZ1 16 H1/H2						
	MasterPact MTZ2	MTZ2 16 N1/H1/H2/L1 **MTZ2 20 N1/H1/H2/H3/L1** MTZ2 25 H1/H2/H3			MTZ2 16 H1/H2/L1 **MTZ2 20 H1/H2/H3/L1** MTZ2 25 H1/H2/H3		MTZ2 16 H2/H3 **MTZ2 20 H2/H3** MTZ2 25 H2/H3	MTZ2 16 L1 **MTZ2 20 L1**

Type of Canalis busbar trunking KRC2500

Isc max. in kA rms		25 kA	30 kA	42 kA	50 kA	65 kA	80 kA	100 kA
Type of circuit breaker	ComPact NS ≥ 1600b	NS2000N **NS2500N** NS3200N						
	MasterPact MTZ2	MTZ2 20 N1/H1/H2/H3/L1			MTZ2 20 H1/H2/H3/L1		MTZ2 20 H2/H3 **MTZ2 25 H2/H3** MTZ2 32 H2/H3	MTZ2 20 L1
		MTZ2 25 H1/H2/H3 MTZ2 32 H1/H2/H3						

Coordination tables between circuit breaker and Canalis electrical busbar trunking

Canalis KRC
Ue: 660-690 V AC

Type of Canalis busbar trunking KRC3200								
Isc max. in kA rms		**25 kA**	**30 kA**	**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**
Type of circuit breaker	ComPact NS ⩾ 1600b			NS2500N **NS3200N**				
	MasterPact MTZ2			MTZ2 25 H1/H2/H3 **MTZ2 32 H1/H2/H3** MTZ2 40 H1/H2/H3			MTZ2 25 H2/H3 **MTZ2 32 H2/H3** MTZ2 40 H2/H3	MTZ2 25 H3 **MTZ2 32 H3** MTZ2 40 H3
	MasterPact MTZ3				MTZ3 40 H1/H2			

Type of Canalis busbar trunking KRC4000								
Isc max. in kA rms		**25 kA**	**30 kA**	**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**
Type of circuit breaker	ComPact NS ⩾ 1600b			NS3200N				
	MasterPact MTZ2			MTZ2 32 H1/H2/H3 **MTZ2 40 H1/H2/H3**			MTZ2 32 H2/H3 **MTZ2 40 H2/H3**	MTZ2 32 H3 **MTZ2 40 H3**
	MasterPact MTZ3				**MTZ3 40 H1/H2** MTZ3 50 H1/H2			

Type of Canalis busbar trunking KRC5000								
Isc max. in kA rms		**25 kA**	**30 kA**	**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**
Type of circuit breaker	MasterPact MTZ1			MTZ2 32 H1/H2/H3 MTZ2 40 H1/H2/H3			MTZ2 32 H2/H3 MTZ2 40 H2/H3	MTZ2 32 H3 MTZ2 40 H3
	MasterPact MTZ2				MTZ3 40 H1/H2 **MTZ3 50 H1/H2** MTZ3 63 H1/H2			

Type of Canalis busbar trunking KRC6300								
Isc max. in kA rms		**25 kA**	**30 kA**	**42 kA**	**50 kA**	**65 kA**	**85 kA**	**100 kA**
Type of circuit breaker	MasterPact MTZ1			MTZ2 40 H1/H2/H3			MTZ2 40 H2/H3	MTZ2 40 H3
	MasterPact MTZ2				MTZ3 40 H1/H2 MTZ3 50 H1/H2 **MTZ3 63 H1/H2**			

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