CATALOG

ABB solutions for HVAC

ACH580 series

Leading the way in HVAC drives

Comfort. It's something we take for granted in the buildings we live and work in. Comfort requires efficient systems to control heating, ventilation, and air conditioning (HVAC) to ensure the air we breathe is pure and the temperature is comfortable. We also need to ensure air quality and safety in the most energy-efficient and cost-effective ways in both normal and mission critical situations.

For half a century, ABB has been leading the way in optimizing HVAC systems using drive control to ensure that you can take comfort for granted. The new ACH580 series of variable frequency drives (VFDs) provides the quality, reliability, and energy savings you expect. They are easy to use and safe to maintain. All you need to do is to set the drive up, and then focus on what counts.

Additional information
We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

Contents

Drives Contents

The next step in HVAC drives

The new ACH580 drives come with a range of advanced features, such as a new primary settings menu that makes commissioning the drives much easier and faster. Optional Bluetooth® connectivity offers improved accessibility for drives in remote areas and increases safety by letting users stay out of arc flash danger zones.

Simple to select, install and use
All the essentials including DC chokes, EMC filters, cabling clamps, certified BACnet communication, and enclosures from UL (NEMA) Type 1 to UL (NEMA) Type 12 are a standard part of the drive. Simplifying selection, installation, and commissioning.

Safe maintenance
The packaged disconnect solution provides a main disconnect switch, further increasing safety for people working on air-handling units.

Motor control options to meet your application needs
ACH580 drives can be integrated with several types of AC motors, including Permanent Magnet (PM), synchronous reluctance (SynRM) motors and Ferrite Assisted SynRM (FASR). Using these motors can reduce your energy costs even more.

Additional I/O options
Take advantage of the added flexibility and accessibility — never be without back-up I/O points at the job site again.

ACH580 drives are ideal for HVAC fans, pumps, compressors, air-handling units, and chillers. These are used in hospitals, data centers, shopping centers, tunnel ventilation, factories, office buildings, and more.

Intuitive control panel
The drive's HVAC-specific software, intuitive control panel with customizable text, and menu-driven programming simplify setup and operation of even the most complex applications. You can customize the view so that it only shows the information you need, and it automatically saves a backup of your most recent configuration so that it's always available.

Optional Bluetooth capability
ABB's new HVAC Bluetooth control panel lets you commission the drive remotely, safely outside the arc flash boundary. The Drivetune smartphone app allows you to commission and tune the drive from a distance, giving you access to the same primary settings and other menus available on the drive's HVAC control panel.

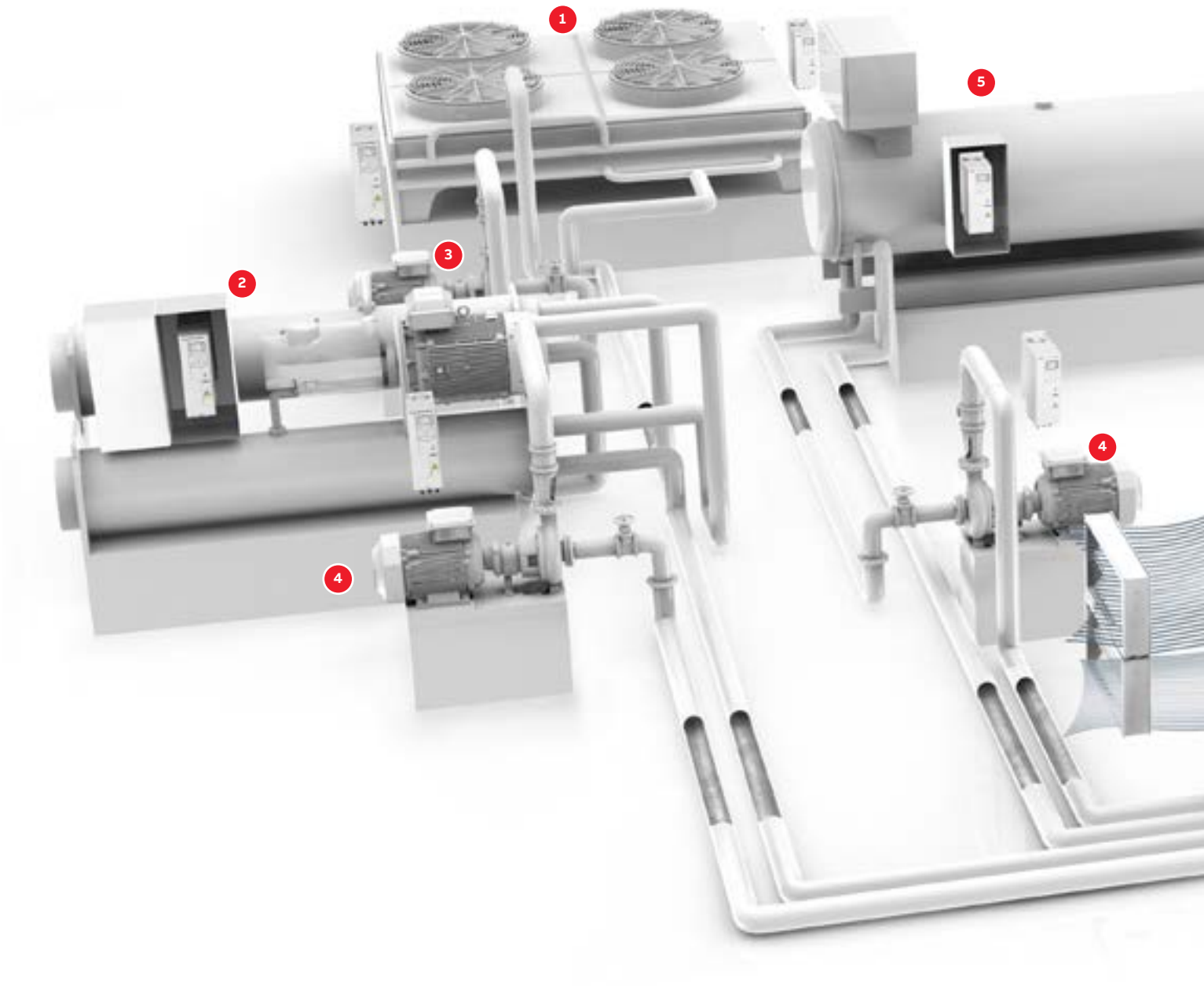
Reliable communication
BTL certified BACnet MS/TP, Modbus RTU, Modbus TCP, Ethernet I/P and Johnson Controls N2 are embedded in every ACH580. In addition, a wide range of optional fieldbus adapters, including DeviceNet, LonWorks, PROFIBUS DP, Ethernet, Modbus TCP, PROFINET IO and BTL certified BACnet/IP, are available to enable connectivity with all major building automation and control systems.

Harmonic mitigation
The drive provides reduced harmonics with built-in, DC choke in a small and lightweight design.

Ultra-low harmonic (ULH) drive for a clean electrical network
The revolutionary ACH580 ultra-low harmonic drive is designed specifically for the HVAC market, minimizing the effect of harmonics on your system. This all-in-one solution is fully integrated within the ACH580 platform and leverages the same programming tools, user settings, options, and functions, while providing superior harmonic performance.

Premier HVAC control

We understand the complexity of air handling systems and the need to produce high levels of comfort, control, and safety. Be assured that, regardless of the season or external conditions, we help make your system efficient, safe, and informative.



1 Cooling tower
Cools down the condenser water.
- The drive controls the speed of multiple fans simultaneously to achieve high energy savings, while optimizing the installation cost

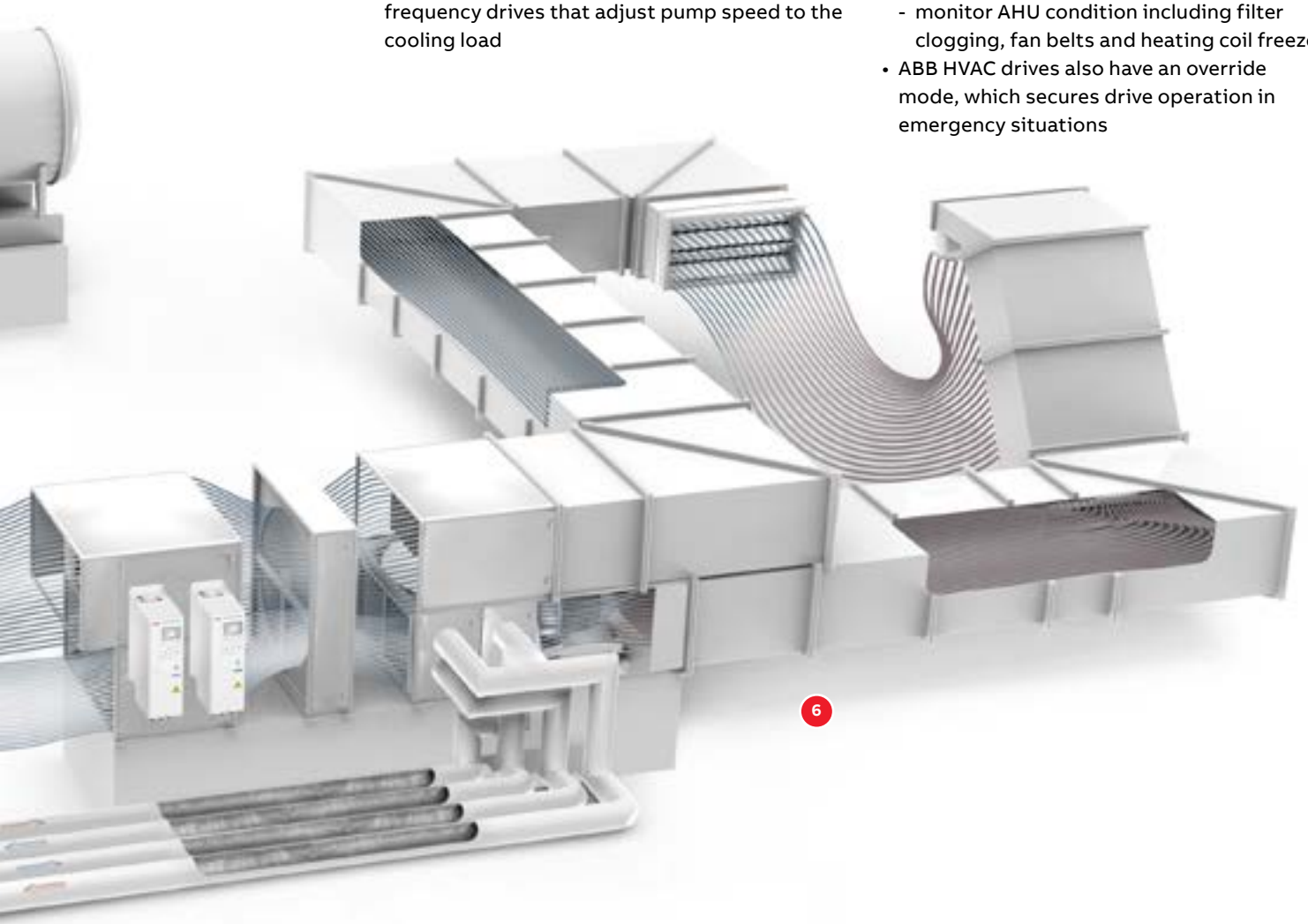
2 Chiller
Chills water or other liquid to cool down and dehumidify the indoor air.
- The drive controls the speed of the compressor for better energy efficiency
- By-pass valves can be avoided
- Less mechanical stress as there are less starts and stops
- Mechanical resonance speeds can be avoided
- Maximum speed is not limited by nominal supply frequency
- Less stress to supply network as high inrush currents can be avoided with VFD controlled start

3 Condenser water pump
Circulates water between the cooling tower and the chiller.
- Energy savings can be achieved with variable frequency drives that adjust pump speed to the cooling load

4 Chilled and hot water circulator pumps
Circulate water (or other liquid) between heating coil and boiler or cooling coil and chiller.
- The cooling and heating loads vary a lot over time. Speed controlled circulator pumps make sure that an adequate amount of water or other liquid is distributed in the building.
- Soft start and stop of the pump reduces hydraulic stress on pipelines and valves

5 Boiler
Heats up the water for building heating.
- The drive controls the burner fan to adjust the amount of combustion air to the heating load

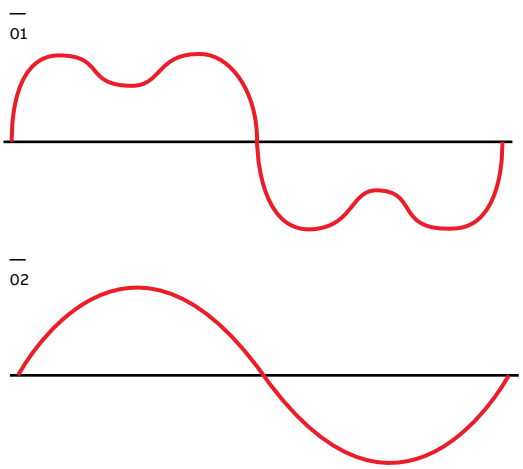
6 Air handling unit
Circulates, mixes, cleans, humidifies/ dehumidifies, heats/cools air.
- Drives can be used to
  - control the speed of supply and return fans
  - eliminate mechanical stress of air duct system
  - avoid fan resonance speeds
  - control the speed and efficiency of the rotary heat exchangers
  - control the dampers
  - monitor AHU condition including filter clogging, fan belts and heating coil freeze
- ABB HVAC drives also have an override mode, which secures drive operation in emergency situations



ACH580 ultra-low harmonic (ULH) drive

What are harmonics?
In an ideal case the current in an AC grid is a pure sine wave and does not contain harmonics. In reality the current deviates from this pure sine wave and contains harmonics. Harmonic current is typically measured as a percentage value, called total harmonic distortion (THDi).

Harmonics can cause damage to sensitive electronic equipment, interference to communication equipment, tripping of circuit breakers, blowing of fuses, and capacitor failures. The effects can also include overheating of cables and motors, overloading of transformers, generator failure, and power factor capacitor damage.



01
Diode supply

02
Active supply

Complete HVAC functionality
The standard ACH580 ULH has an intuitive control panel used to configure, control, and monitor the drive. An optional Bluetooth control panel allows the drive to be configured via the control panel or the DriveTune app.

A robust HVAC firmware package provides drive, motor, and application protection features. Application specific features, such as accepting four separate start interlocks (safeties), along with broken belt detection, are also included. The drive includes BACnet MS/TP, Modbus RTU, and Johnson Controls N2 as standard.

Savings in total cost of ownership
Installation costs are reduced with the simple three wires in and three wires out design. Maintenance costs are lowered as compared to other harmonic mitigation solutions like passive filters, multi-pulse, and active filters. There are fewer components to maintain and stock as spares.

Using the ACH580 ULH allows your engineer to design your electrical system and backup generators to the right size and not oversizing for the harmonics in the network.

Reliability for your building
Harmonics in the network could cause problems with other electrical equipment in the same network. Worst case scenario, it may cause your sensitive electrical equipment to fail.

Harmonics can also cause problems in retrofit projects. In such projects, a transformer might not be able to meet the harmonic levels caused by non-linear loads such as standard 6-pulse drives, so there is a risk of overloading the transformer.

In addition to the problems caused by harmonics, a weak electrical network can cause troubles to your HVAC systems. Weak electrical networks that have sags on the line voltage may cause motors to overheat, trip, or fail.

The ACH580 ULH drive offers a reliable solution to overcome these challenges. It is able to lower the harmonic content so that sensitive equipment stays running and transformers or generators don't fail. In addition, the ACH580 ULH can boost output voltage so that the motor will always run with nominal voltage, despite the fluctuations in line voltage.

Optimized size and performance
ACH580 ULH has all the harmonic mitigation technology in the drive. With a THDi of 3% or less, there is no need to install external components for reducing harmonics, this drive doesn't create the harmonics to fix.

ACH580 ultra-low harmonic packaged drives with disconnect
The ACH580 ultra-low harmonic (ULH) packaged drive is an ACH580 ULH variable frequency drive enclosed with either an input disconnect switch and fast acting fuses (ACH580-3PDR) or an input circuit breaker and fast acting fuses (ACH580-3PCR). The ACH580 packaged drive provides a door-mounted input disconnect switch (padlockable in the OFF position), electronic motor overload protection, a door mounted control panel with graphical display for local control, provisions for external control connections, and serial communications capability.

ACH580 ultra-low harmonic drive E-Clipse bypass
The ACH580 ultra-low harmonic (ULH) drive with ABB E-Clipse bypass is an ACH580 HVAC drive in an integrated UL (NEMA) Type 1, 12 or 3R enclosure with a bypass motor starter. The ACH580 ULH drive with ABB E-Clipse bypass provides an input disconnect switch or circuit breaker with door mounted and interlocked switch (padlockable in the OFF position), a bypass starter, electronic motor overload protection, a door mounted control panel with graphical display for local control, provisions for external control connections, and serial communications capability. Configurations with the +F267 option include a drive service switch.

Technical details and documentation
PDF, BIM, CAD Drawings and 3D models are available for planning your building.

Complete HVAC drive offering

All ACH580 drives offer ease of use, scalability, reliability, and come in a variety of packages. They can be equipped with an intuitive Bluetooth control panel, allowing the drive to be configured directly via the control panel or via the Drivetune app. A robust HVAC firmware package provides drive, motor, and application protection features. The drive includes BACnet MS/TP, Modbus RTU, and Johnson Controls N2. Additional protocols, such as BACnet/IP, Modbus TCP, Ethernet I/P and LonWorks, are available with optional fieldbus adapters.

Wall-mounted drives, ACH580-01 and ACH580-31 ultra-low harmonic version
ACH580 wall mounted drives offer side-by-side, flange, and horizontal mounting options. The UL (NEMA) Type 12 / IP55 variants are designed for applications exposed to dust, moisture, vibration, and other harsh conditions. The ACH580-01 is a six-pulse drive that includes an optimized DC choke for harmonic mitigation.

ACH580-31 ultra-low harmonic drives with built-in harmonic mitigation help to keep the power network clean providing exceptionally low harmonic content. This brings significant benefits, including improved reliability and increased energy savings, as well as extended equipment lifetime.

ACH580-01	ACH580-31
HP range	
1-100 HP at 208 VAC 1-350 HP at 460 VAC 2-250 HP at 575 VAC	5-150 at 460 VAC
Input Voltage range	
200 - 240 VAC 1-phase 200 - 240 VAC 3-phase 380 - 480 VAC 3-phase 500 - 600 VAC 3-phase	380 - 480 VAC 3-phase
Enclosure type	
UL (NEMA) Type 1 UL (NEMA) Type 12	UL (NEMA) Type 1 UL (NEMA) Type 12
Control mode	
Scalar Open loop vector	Scalar Open loop vector
Communications options	
BACnet MS/TP, BACnet/IP, DeviceNet, EtherNet/IP, Modbus RTU, Johnson Controls N2, PROFIBUS DP, GP1	BACnet MS/TP, BACnet/IP, DeviceNet, EtherNet/IP, Modbus RTU, Johnson Controls N2, PROFIBUS DP, GP1
Operator interface	
Local mounted control panel	Local mounted control panel
Disconnect type	
N/A	N/A

E-Clipse bypass drive, ACH580-VCR, ACH580-VDR, ACH580-BCR, ACH580-BDR, ACH580-3BCR, ACH580-3BDR

The ACH580 with ABB E-Clipse bypass has an integrated UL (NEMA) Type 1, 12 or 3R enclosure with a bypass motor starter and is available from 1 to 350 hp at 230/460/575 V. The ACH580 with ABB E-Clipse bypass provides an input disconnect switch or circuit breaker with door mounted and interlocked switch (padlockable in the OFF position), a bypass starter, electronic motor overload protection, a door mounted control panel with graphical display for local control, provisions for external control connections, and serial communications capability.

ACH580-VCR/VDR	ACH580-BCR/BDR	ACH580-3BCR/3BDR
HP range		
1-25 HP at 208 VAC 1-60 HP at 460 VAC 2-75 HP at 575 VAC	1-100 HP at 208 VAC 1-700 HP at 460 VAC 2-250 HP at 575 VAC	5-400 HP at 460 VAC
Input Voltage range		
200 - 240 VAC 3-phase 440 - 480 VAC 3-phase 500 - 600 VAC 3-phase	200 - 240 VAC 3-phase 440 - 480 VAC 3-phase 500 - 600 VAC 3-phase	440 - 480 VAC 3-phase
Enclosure type		
UL (NEMA) Type 1	UL (NEMA) Type 1 UL (NEMA) Type 12 UL (NEMA) Type 3R	UL (NEMA) Type 1 UL (NEMA) Type 12 UL (NEMA) Type 3R
Control mode		
Scalar Open loop vector	Scalar Open loop vector	Scalar Open loop vector
Communications options		
BACnet MS/TP, BACnet/IP, DeviceNet, EtherNet/IP, Modbus RTU, Johnson Controls N2, PROFIBUS DP, GP1	BACnet MS/TP, BACnet/IP, DeviceNet, EtherNet/IP, Modbus RTU, Johnson Controls N2, PROFIBUS DP, GP1	BACnet MS/TP, BACnet/IP, DeviceNet, EtherNet/IP, Modbus RTU, Johnson Controls N2, PROFIBUS DP, GP1
Operator interface		
Local mounted LCD display and control panel	Door mounted LCD display and control panel	Door mounted LCD display and control panel
Disconnect type		
Circuit breaker or disconnect	Circuit breaker or disconnect	Circuit breaker or disconnect
Additional configurations		
Service switch (+F267)	Input harmonic filter (+E211), Line reactors (+E213), Manual motor protectors (+xG405+Mxxx), Service Switch (+F267), Soft start (+G390), Special enclosures (3Rx, 4 and 4X)	Service Switch (+F267), Soft start (+G390), Special enclosures (3Rx, 4 and 4X)

Complete HVAC drive offering

Packaged drive with disconnect means, ACH580-PCR, ACH580-PDR
The ACH580 Packaged Drive includes an ACH580 drive in a UL (NEMA) Type 1, 12 or 3R enclosure with either an input disconnect switch and fast acting fuses or an input circuit breaker. It is available from 1 to 350 hp at 230/460/575 V. The ACH580 Packaged Drive provides a door-mounted input disconnect switch (padlockable in the OFF position), electronic motor overload protection, a door-mounted control panel with graphical display for local control, provisions for external control connections, and serial communications capability.

ACH580-PCR/PDR	ACH580-3PCR/3PDR
HP range	
1-100 HP at 208 VAC 1-700 HP at 460 VAC 2-250 HP at 575 VAC	5-400 HP at 460 VAC
Input Voltage range	
200 - 240 VAC 3-phase 440 - 480 VAC 3-phase 500 - 600 VAC 3-phase	440 - 480 VAC 3-phase
Enclosure type	
UL (NEMA) Type 1 UL (NEMA) Type 12 UL (NEMA) Type 3R	UL (NEMA) Type 1 UL (NEMA) Type 12 UL (NEMA) Type 3R
Control mode	
Scalar Open loop vector	Scalar Open loop vector
Communications options	
BACnet MS/TP, BACnet/IP, DeviceNet, EtherNet/IP, Modbus RTU, Johnson Controls N2, PROFIBUS DP, GP1	BACnet MS/TP, BACnet/IP, DeviceNet, EtherNet/IP, Modbus RTU, Johnson Controls N2, PROFIBUS DP, GP1
Operator interface	
Local or door mounted control panel	Local or door mounted control panel
Disconnect type	
Circuit breaker or disconnect	Circuit breaker or disconnect
Additional configurations	
Input harmonic filter (+E211), Line reactors (+E213), Manual motor protectors (+xG405+Mxxx), Redundant drive (+C170), Special enclosures (3Rx, 4 and 4X)	Manual motor protectors (+xG405+Mxxx), Redundant drive (+C170), Special enclosures (3Rx, 4 and 4X)

Common characteristics of the HVAC family of drives

HVAC control panel with primary settings
- Primary settings make commissioning of the drive easier than ever before
- An optional Bluetooth enabled control panel allows easy smartphone connection and remote support possibilities
- Easily available USB interface for PC and tool connection
- Help button for problem-solving

HVAC communication protocols
- BTL certified BACnet MS/TP and other common HVAC communication protocols such as GP1, N2, LONWorks and Modbus RTU as standard
- BACnet/IP with a fieldbus adapter option

Supported communications for SCADA systems
- Ethernet IP
- Modbus TCP
- DeviceNet
- Profitnet IO

Suitable for various HVAC applications
ABB HVAC drives are suitable not only for variable torque applications like fans and pumps, but also for basic constant torque applications like compressors.

Robust and reliable design
- All units are tested under full load in maximum allowed ambient temperature to verify the quality
- Printed circuit boards are protected with extra coating to be able to operate in humid and harsh environments

Energy efficiency calculators
Optimize energy efficiency with features that help you to save and manage energy. You can monitor the hourly, daily cumulative, last hour, last day and last month energy consumption via kWh counters.

Diagnostic menu
Analyze and resolve issues with the control panel's diagnostics menu. You can quickly analyze why the drive is performing as it is; running, stopped or running at the present speed.

Embedded load analyzers
Analyze and optimize the application with the load profile log, which shows how the drive has operated.

Integrated process control
Reduce costs with the built-in HVAC controllers. They allow the HVAC drives not only to control themselves using an external feedback signal, but also to control other processes.

Flexibility in programming
Scale up and customize the drive to your application's requirements with flexible parameter pointers or visual adaptive programming.

Extensive I/O capabilities
- ABB HVAC drives have an extensive number of I/O terminals in standard configuration
- Colored terminals and clear terminal marking significantly ease drive wiring process
- I/O status can be monitored via I/O menu
- I/O can be forced on or off to verify drive's either from the display or via your fieldbus connected controls

Advanced motor control
- Support for induction (IM), F (PM) and synchronous reluctance (SynRM) motors, Permanent Magnet assisted synchronous reluctance motor (PMaSynRM)
- Reduce audible motor noise by spreading the switching frequencies over user-specified range

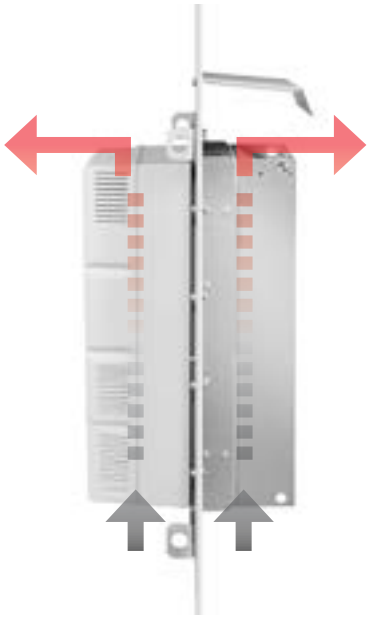
High protection for operation in harsh environments

Thanks to the drive's wall-mountable construction in both UL (NEMA) Type 1 and UL (NEMA) Type 12 configurations the ACH580-01 can be installed in clean rooms, and provides protection against circulating dust, falling dirt, and dripping non-corrosive liquids.

The robust, protective design ensures that no additional enclosures or components, such as dust filters and fans, are needed. Overall, drives for harsh environments require smaller capital expenses by avoiding or advancing maintenance of external components, which in turn improves the reliability of the drive and the process.

Flange mounting

The ACH580-01 wall-mounted drive offers flange mounting as an option, separating the control electronics from the main circuit cooling airflow, saving space and ensuring optimal cooling. This results in better thermal management during panel installation and reduces the overall enclosure size. Furthermore, the need for air-conditioning can often be eliminated, as up to 80 percent of the heat load is removed through the back of the panel.



ACH580
Motor control options

Super-E motor

ABB IE5 synchronous reluctance motor SynRM

EC Titanium Ferrite assisted synchlous reluctance motor (FASR)

Induction motors, the industry workhorse
Pair the ACH580 with an induction motor for simple and reliable operation. Further simplifying setup, the ACH580 drive is factory-delivered with EM series nameplate motor data.

Permanent Magnet motors for smooth operation
ABB has the software, hardware and application knowledge to support Permanent Magnet motor technology. Permanent Magnet technology offers users efficiency across the speed range, compact housing for applications such as fan walls, and eliminates the need for mechanical speed reduction equipment.

IE5 SynRM for optimized energy efficiency
A key to increased energy efficiency is the rotor design of our drive and motor package. Combining the ACH580's control technology with a synchronous reluctance motor (SynRM) will also reduce motor temperature and noise.

EC Titanium for efficiency and performance
The EC Titanium achieves IE5 efficiencies and is a step above traditional EC motor designs. The EC Titanium is paired with a VFD that enables the use of advanced motor control algorithms for higher efficiencies across the speed load range than traditional EC (electrically commutated) motor solutions.

Control panel options and mounting kits

The standard delivery of the ABB HVAC drives include the HVAC control panel, which has the Hand-Off-Auto operation logic and multiple other HVAC features. A variety of different control panel accessories are available for ACH580 drives.

Intuitive control panel
ACH-AP-H
The drive's HVAC-specific software, intuitive control panel with customizable text, and menu-driven programming simplify setup and operation of even the most complex applications.

Bluetooth control panel
ACH-AP-W
The optional Bluetooth panel enables connection with the Drivetune mobile app. The app is available for free from Google Play and the Apple App store. With the Drivetune app, HVAC users have all the similar functions as there is on the standard ACH-AP-H or ACH-AP-W control panels: Primary settings, I/O menu, diagnostics, and full parameter list among other functions.

Blank control panel cover
CDUM-01
The CDUM-01 is a blank control panel cover.

Control panel bus adapters
CDPI-01
Control panel bus adapters are used to connect HVAC control panels with an RJ-45 cable to the drive from a distance, e.g. when mounting the control panel on a cabinet door. In addition, CDPI adapters can be used to daisy chain several ACH drives together to be controlled with a single control panel or PC tool.

Control panel mounting platform
DPMP-01
This mounting platform is for flush mountings. This requires also CDPI-01 for ACH580 (blank control panel with the RJ-45 connector) and a control panel. The protection class is UL (NEMA) Type 12 / IP54 when panel is mounted, UL (NEMA) Type Open / IP20 when panel is not mounted.

Control panel mounting platform
DPMP-02
The control panel mounting platform is for surface mounting. It does not include the control panel. When using this with ACH580, also CDPI-01 is required. The protection class is UL (NEMA) Type 12 / IP65 when panel is mounted, UL (NEMA) Type Open / IP20 when panel is not mounted.

HVAC cabinet mounting panel kit (R1-R5)
DPMP-06-EXT-H
The kit contains one piece of the DPMP-06 door mounting piece, one piece of the CDPI-01 drive mounting adapter and a 3m connection cable. The control panel must be purchased separately. The protection class is UL (NEMA) Type 12 / IP54 when panel is mounted, UL (NEMA) Type Open / IP20 when panel is mounted.

HVAC cabinet mounting panel kit (R6-R11)
DPMP-07-H
The kit contains one piece of the DPMP-06 door mounting piece and one 3m connection cable that plugs in direct to the control board. Frames R6-R9 wall mount drives and R10-R11 drive modules. The control panel must be purchased separately. The protection class is UL (NEMA) Type 12 / IP54 when panel is mounted, UL (NEMA) Type Open / IP20 when panel is not mounted.

Door mounting kits
DPMP-EXT for ACH580-01 and ACH580-31
The door mounting kit is ideal for cabinet installations. Should you want to use a different control panel than the one delivered with the drive, it needs to be ordered separately. The protection class is UL (NEMA) Type 12 / IP65 when panel is mounted, UL (NEMA) Type Open / IP20 when panel is not mounted.

ACH580 technical data

Mains connection		
Input voltage and output power range	3-phase (1-phase, 240V), U_N 208 to 600 V +10/-15%	
	ACH580-01:	1 to 350 HP
	ACH580-04:	400 to 700 HP
	ACH580-31:	5 to 150 HP
	ACH580-34:	200 to 400 HP
Frequency	48 to 63 Hz	
Power factor ACH580-01, ACH580-04	0.98	
Power factor ACH580-31 and ACH580-34	1.0	
Motor control		
Voltage	0 to U_N, 3-phase	
Frequency	0 to 500 Hz	
Motor control	Scalar and vector	
Supported motor types	Asynchronous motor, permanent magnet motor (vector), SynRM (vector)	
Environmental limits		
Operation temperature	ACH580-01	-15 to +50 °C
	ACH580-04	-15 to +55 °C
	ACH580-31	-15 to +50 °C
	ACH580-34	-15 to +50 °C
Transportation and storage temperature	-40 to +70 °C	
Relative humidity	5 to 95 % no condensation allowed	
Altitude	Rated current available at 0 to 1000 m Reduced by 1% per 100 m over 1000 m up to 4000 m	
Degree of protection	ACH580-01	UL (NEMA) Type 1 / IP21 or UL (NEMA) Type 12 / IP55
	ACH580-31	
	ACH580-04	UL (NEMA) Type Open / IP00 or IP20
	ACH580-34	
Contamination level	Operation at Class 3C2, Class 3S2 according to IEC 60721-3-3 Transportation at Class 2C2, Class 2S2 according to IEC 60721-3-3 Storage at Class 1C2, Class 1S2 according to IEC 60721-3-3	

Inputs and outputs (standard configuration)	
2 analog inputs	Selection of Current/Voltage input mode is user programmable.
Voltage signal	0 (2) to 10 V, R_{in} >200 kΩ
Current signal	0 (4) to 20 mA, R_{in} = 100 Ω
Potentiometer reference value	10 V ±1% max. 20 mA
2 analog outputs	AO1 is user programmable for current or voltage. AO2 current
Voltage signal	0 to 10 V, R_{load}: >100 kΩ
Current signal	0 to 20 mA, R_{load}: < 500 Ω
Internal auxiliary voltage	24 V DC ±10%, max. 250 mA
6 digital inputs	12 to 24 V DC, 24 V AC, Connectivity of PTC sensors supported by a single digital input. PNP or NPN connection (5 DIs with NPN connection).
3 relay outputs	Maximum switching voltage 250 V AC/30 V DC Maximum continuous current 2 A rms
Supported thermistors	Any of the analog inputs, or digital input 6, are configurable for PTC with up to 6 sensors. Both analog outputs can be used to feed the PT100, PT1000, KTY83, KTY84 or Ni1000 sensors.
External power supply	
Standard: **ACH580-01 frames R6-R9,** **ACH580-04 all frames,** **ACH580-31 all frames,** **ACH580-34 all frames**	1.5 A at 24 V AC/DC ±10%
With option:	
ACH580-01 frames R1-R5	1.04 A at 24 V AC/DC ±10%

Communication

Protocols as standard (EIA-485): BACnet MS/TP, Modbus RTU, N2, and GP1.
Available as 2-port plug-in options: BACnet/IP, Modbus TCP, PROFINET IO, EtherNet/IP.
Available as plug-in options: CANopen, DeviceNet, LonWorks, Profibus DP.
Available as an external 2-port option: EtherNet adapter for remote monitoring.

Product compliance

CE, BTL
Low Voltage Directive 2014/35/EU, EN 61800-5-1:2007
Machinery Directive 2006/42/EC, EN 61800-5-2:2007
EMC Directive 2014/30/EU, EN 61800-3:2004 + A1:2012
RoHS directive 2011/65/EU
Quality assurance system ISO 9001 and
Environmental system ISO 14001
Waste electrical and electronic equipment directive (WEEE) 2002/96/EC
Galvanic isolation according to PELV
UL, EAC, RCM, cUL
TÜV Nord (safety functions)

Harmonics compliance

Built-in optimized DC choke as standard in ACH580-01 provides a 5% impedance equivalent.
ACH580-31/34 with 3% or less THdi at the drive terminal meets the most stringent specifications calling IEEE519
IEEE519.

EMC according to EN 61800-3:2004 + A1:2012
ACH580-01 drive frames R1 to R9 (up to 350 HP) designed to comply with EMC category C2 requirements as standard. Frames R10 and R11 (up to 700 HP) comply with category C3 with standard pre-configured built-in filter. ACH580-31 drive frames R3, R6 & R8 (5 to 150 HP) designed to comply with EMC category C2 requirements as standard. Frame R11 (200 to 400 HP) comply with category C3.
Functional safety
STO according to EN 61800-5-2:2016, IEC 61508 Parts 1-2:2010, ISO 13849-1:2015, ISO 13849-2:2012, IEC 62061:2015 SIL 3/PL e
Application functions
First start assistant Primary settings for HVAC applications Hand-Off-Auto operation mode Start interlock (defrost) Delayed start Run permissive (damper monitoring) Override operation mode Real-time clock (scheduling) PID controllers for motor and process Motor flying start Motor preheating Energy optimizer and calculators
Protection functions
Overvoltage controller Undervoltage controller Motor and motor cable earth-leakage monitoring Motor and motor cable short-circuit protection Motor overtemperature protection Output and input switch supervision Motor overload protection Phase-loss detection (both motor and supply) Under load supervision (belt loss detection) Overload supervision Stall protection Loss of control reference

Environmental protections	
Chemical Gases	Class 3C2
Solid Particles	Class 3S2 No conductive dust allowed
Pollution degree (IEC/EN 61800-5-1)	Pollution degree 2
Product compliance	
Standards and directives	Low Voltage Directive 2006/95/EC EMC Directive 2004/108/EC 60721-3-3: 2002 60721-3-1:1997 Quality assurance system ISO 9001 and Environmental system ISO 14001 CE, UL, cUL, and EAC approvals CSA C222N0274 Galvanic isolation according to PELV RoHS2 (Restriction of Hazardous Substances) EN 61800-5-1: 2007; IEC/EN 61000-3-12; EN61800-3: 2017 + A1: 2012 Category C2 (1st environment restricted distribution); Safe torque off (EN 61800-5-2) BACnet Testing Laboratory (BTL) Seismic (IBC, OSHPD)*

Storage (in Protective Shipping Package)	
Air Temperature	-40 to +70 °C (-40 to +158 °F)
Relative Humidity	Less than 95% No condensation allowed Maximum relative humidity is 60% in the presence of corrosive gases
Chemical Gases	Class 1C2
Solid Particles	Class 1S2 Contact ABB regarding Class 1S3
Atmospheric pressure	70 to 106 kPa 0.7 to 1.05 atmospheres
Vibration (ISTA)	
R1…R4	In accordance with ISTA 1A
R5…R9	In accordance with ISTA 3E
Transportation (in Protective Shipping Package)	
Air Temperature	-40° to 70°C (-40° to 158°F)
Relative Humidity	Less than 95% No condensation allowed Maximum relative humidity is 60% in the presence of corrosive gases
Atmospheric Pressure	60 to 106 kPa (8.7 to 15.4 PSI) 0.6 to 1.05 atmospheres
Free Fall	R1: 76 cm (30 in) R2: 61 cm (24 in) R3: 46 cm (18 in) R4: 31 cm (12 in) R5: 25 cm (10 in) R6: R7: R8: R9:
Chemical Gases	Class 2C2
Solid Particles	Class 2S2
Shock/ Drop (ISTA)	
R1…R4	In accordance with ISTA 1A
R5…R9	In accordance with ISTA 3E
Vibration (ISTA)	
R1…R4	In accordance with ISTA 1A
R5…R9	In accordance with ISTA 3E

*** Seismic ratings are covered on wall mount drives and standard packages.**

Tools

Enjoy the easiness offered by the cold configuration tool and Drive composer PC tool. These tools lighten your workload, especially if there are many drives. The cold configurator tool provides a quick way to parametrize unpowered drives even in their boxes, and the Drive composer PC tool offers advanced means, for example, for commissioning and monitoring.

Safe configuration for unpowered drives
The CCA-01 cold configuration adapter provides a serial communication interface for unpowered drives. With the adapter, safe isolation of both serial communication and control board power supply is possible. The power supply is taken from a PC USB port.

PC tools
The Drive composer PC tool offers fast and harmonized setup, commissioning, monitoring, and the capability to create adaptive block programs. The free version of the tool provides startup and maintenance capabilities and gathers all drive information, such as parameter loggers, faults, and backups into a support diagnostics file. Drive composer pro provides additional features such as custom parameter windows, graphical control diagrams of the drive's configuration, and improved monitoring and diagnostics.

Shared features of the ABB all-compatible drives portfolio

Drivetune smartphone app
- The Drivetune smartphone app together with the Bluetooth-enabled control panel allows you to set up and commission the drive remotely from a safe and comfortable location, using the same primary settings menu that is available on the control panel on the drive.

Same PC tools for ABB all-compatible drives
- Drive composer entry available for free at www.abb.com
- Same parameter structure makes the all-compatible platform easy to use

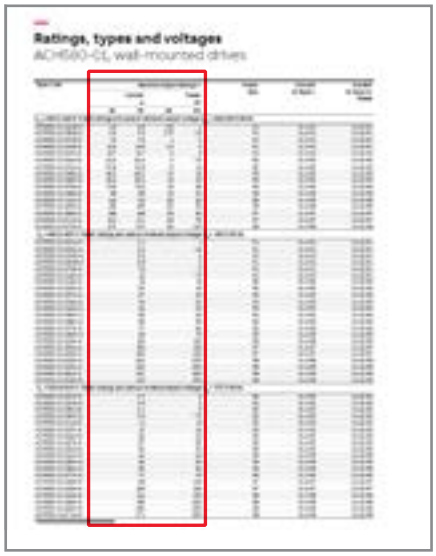
Connectivity
- ABB's F-series fieldbus adapters can be used throughout the all-compatible platform
- Fieldbus settings are made easy with the Primary Settings menu
- Bluetooth connectivity to Apple and Android devices

How to select a drive

This is how you build up your own ordering code using the type designation key.

Start by identifying your supply voltage. This tells you what rating table to use. See pages 1-20 through 1-54.

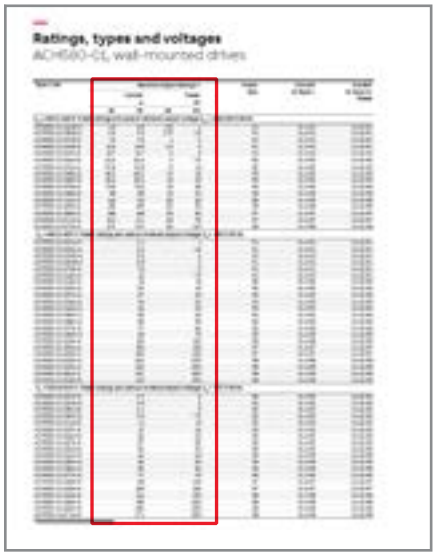
Select your drive's order code from the rating table based on the nominal current rating of your motor.



Pages 1-20 through 1-54

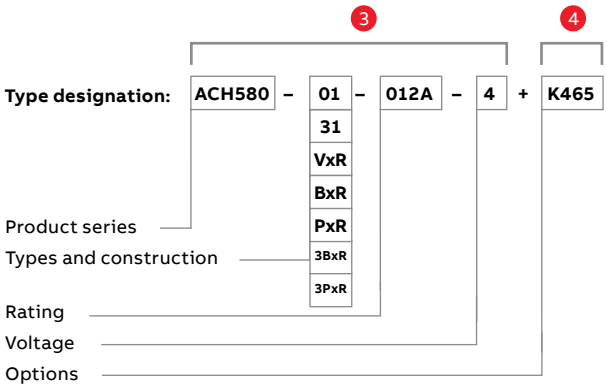
Choose your options (on page 1-1) and add the option codes to the drive's order code. Remember to use a "+" sign before each option code.

Choose the power and current rating of your motor from the ratings tables on pages 1-20 through 1-54.



Pages 1-20 through 1-54

Page 1-1



Note: Ratings apply at an ambient temperature of 40°C (104°F) unless otherwise noted.
To achieve the rated motor power given in the table, the rated current of the drive must be higher than or equal to the rated motor current.

Definitions:
I Continuous rms output current allowing 110% overload for 1 minute every 10 minutes.
P Typical motor power
U_N Output voltage of the drive
U_1 Input voltage range
x Any disconnect configuration, replace with C for circuit breaker of D for Disconnect.

Ratings, types and voltages
ACH580-01, wall-mounted drives

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12
	Current	Power			
	A	HP			
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz					
ACH580-01-04A6-2	4.6	1	R1	01-1-R1	01-12-R1
ACH580-01-06A6-2	6.6	1.5	R1	01-1-R1	01-12-R1
ACH580-01-07A5-2	7.5	2	R1	01-1-R1	01-12-R1
ACH580-01-10A6-2	10.6	3	R1	01-1-R1	01-12-R1
ACH580-01-017A-2	16.7	5	R1	01-1-R1	01-12-R1
ACH580-01-024A-2	24.2	7.5	R2	01-1-R2	01-12-R2
ACH580-01-031A-2	30.8	10	R2	01-1-R2	01-12-R2
ACH580-01-046A-2	46.2	15	R3	01-1-R3	01-12-R3
ACH580-01-059A-2	59.4	20	R3	01-1-R3	01-12-R3
ACH580-01-075A-2	74.8	25	R4	01-1-R4	01-12-R4
ACH580-01-088A-2	88	30	R5	01-1-R5	01-12-R5
ACH580-01-114A-2	114	40	R5	01-1-R5	01-12-R5
ACH580-01-143A-2	143	50	R6	01-1-R6	01-12-R6
ACH580-01-169A-2	169	60	R7	01-1-R7	01-12-R7
ACH580-01-211A-2	211	75	R7	01-1-R7	01-12-R7
ACH580-01-273A-2	273	100	R8	01-1-R8	01-12-R8
U_1 = 380 to 480 V. Power ratings are valid at output voltage U_N = 460 V 60 Hz					
ACH580-01-02A1-4	2.1	1	R1	01-1-R1	01-12-R1
ACH580-01-03A0-4	3	1.5	R1	01-1-R1	01-12-R1
ACH580-01-03A5-4	3.5	2	R1	01-1-R1	01-12-R1
ACH580-01-04A8-4	4.8	3	R1	01-1-R1	01-12-R1
ACH580-01-07A6-4	7.6	5	R1	01-1-R1	01-12-R1
ACH580-01-012A-4	12	7.5	R1	01-1-R1	01-12-R1
ACH580-01-014A-4	14	10	R2	01-1-R2	01-12-R2
ACH580-01-023A-4	23	15	R2	01-1-R2	01-12-R2
ACH580-01-027A-4	27	20	R3	01-1-R3	01-12-R3
ACH580-01-034A-4	34	25	R3	01-1-R3	01-12-R3
ACH580-01-044A-4	44	30	R3	01-1-R3	01-12-R3
ACH580-01-052A-4	52	40	R4	01-1-R4	01-12-R4
ACH580-01-065A-4	65	50	R4	01-1-R4	01-12-R4
ACH580-01-077A-4	77	60	R4	01-1-R4	01-12-R4
ACH580-01-096A-4	96	75	R5	01-1-R5	01-12-R5
ACH580-01-124A-4	124	100	R6	01-1-R6	01-12-R6
ACH580-01-156A-4	156	125	R7	01-1-R7	01-12-R7
ACH580-01-180A-4	180	150	R7	01-1-R7	01-12-R7
ACH580-01-240A-4	240	200	R8	01-1-R8	01-12-R8
ACH580-01-302A-4	302	250	R9	01-1-R9	01-12-R9
ACH580-01-361A-4	361	300	R9	01-1-R9	01-12-R9
ACH580-01-414A-4	414	350	R9	01-1-R9	01-12-R9

Ratings, types and voltages
ACH580-01, wall-mounted drives

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12
	Current	Power			
	A	HP			
U_1 = 500 to 600 V. Power ratings are valid at output voltage U_N = 575 V 60 Hz					
ACH580-01-02A7-6	2.7	2	R2	01-1-R2	01-12-R2
ACH580-01-03A9-6	3.9	3	R2	01-1-R2	01-12-R2
ACH580-01-06A1-6	6.1	5	R2	01-1-R2	01-12-R2
ACH580-01-09A0-6	9	7.5	R2	01-1-R2	01-12-R2
ACH580-01-011A-6	11	10	R2	01-1-R2	01-12-R2
ACH580-01-017A-6	17	15	R2	01-1-R2	01-12-R2
ACH580-01-022A-6	22	20	R3	01-1-R3	01-12-R3
ACH580-01-027A-6	27	25	R3	01-1-R3	01-12-R3
ACH580-01-032A-6	32	30	R3	01-1-R3	01-12-R3
ACH580-01-041A-6	41	40	R5	01-1-R5	01-12-R5
ACH580-01-052A-6	52	50	R5	01-1-R5	01-12-R5
ACH580-01-062A-6	62	60	R5	01-1-R5	01-12-R5
ACH580-01-077A-6	77	75	R5	01-1-R5	01-12-R5
ACH580-01-099A-6	99	100	R7	01-1-R7	01-12-R7
ACH580-01-125A-6	125	125	R7	01-1-R7	01-12-R7
ACH580-01-144A-6	144	150	R8	01-1-R8	01-12-R8
ACH580-01-192A-6	192	200	R9	01-1-R9	01-12-R9
ACH580-01-242A-6	242	250	R9	01-1-R9	01-12-R9
ACH580-01-271A-6	271	250	R9	01-1-R9	01-12-R9

Ratings, types and voltages

ACH580-VCR, vertical E-Clipse bypass drive with circuit breaker

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1
	Current	Power		
	A	HP		
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz				
ACH580-VCR-04A6-2	4.6	1	R1	Vx1-1
ACH580-VCR-06A6-2	6.6	1.5	R1	Vx1-1
ACH580-VCR-07A5-2	7.5	2	R1	Vx1-1
ACH580-VCR-10A6-2	10.6	3	R1	Vx1-1
ACH580-VCR-017A-2	16.7	5	R1	Vx1-1
ACH580-VCR-024A-2	24.2	7.5	R2	Vx1-2
ACH580-VCR-031A-2	30.8	10	R2	Vx1-3
ACH580-VCR-046A-2	46.2	15	R3	Vx1-4
ACH580-VCR-059A-2	59.4	20	R3	Vx1-4
ACH580-VCR-075A-2	74.8	25	R4	Vx1-4
U_1 = 380 to 480 V. Power ratings are valid at output voltage U_N = 460 V 60 Hz				
ACH580-VCR-02A1-4	2.1	1	R1	Vx1-1
ACH580-VCR-03A0-4	3	1.5	R1	Vx1-1
ACH580-VCR-03A5-4	3.5	2	R1	Vx1-1
ACH580-VCR-04A8-4	4.8	3	R1	Vx1-1
ACH580-VCR-07A6-4	7.6	5	R1	Vx1-1
ACH580-VCR-012A-4	12	7.5	R1	Vx1-1
ACH580-VCR-014A-4	14	10	R2	Vx1-2
ACH580-VCR-023A-4	23	15	R2	Vx1-2
ACH580-VCR-027A-4	27	20	R3	Vx1-3
ACH580-VCR-034A-4	34	25	R3	Vx1-3
ACH580-VCR-044A-4	44	30	R3	Vx1-3
ACH580-VCR-052A-4	52	40	R4	Vx1-4
ACH580-VCR-065A-4	65	50	R4	Vx1-4
ACH580-VCR-077A-4	77	60	R4	Vx1-4
U_1 = 500 to 600 V. Power ratings are valid at output voltage U_N = 575 V 60 Hz				
ACH580-VCR-02A7-6	2.7	2	R2	Vx1-2
ACH580-VCR-03A9-6	3.9	3	R2	Vx1-2
ACH580-VCR-06A1-6	6.1	5	R2	Vx1-2
ACH580-VCR-09A0-6	9	7.5	R2	Vx1-2
ACH580-VCR-011A-6	11	10	R2	Vx1-2
ACH580-VCR-017A-6	17	15	R2	Vx1-2
ACH580-VCR-022A-6	22	20	R3	Vx1-3
ACH580-VCR-027A-6	27	25	R3	Vx1-3
ACH580-VCR-032A-6	32	30	R3	Vx1-3
ACH580-VCR-041A-6	41	40	R5	Vx1-5
ACH580-VCR-052A-6	52	50	R5	Vx1-5
ACH580-VCR-062A-6	62	60	R5	Vx1-5
ACH580-VCR-077A-6	77	75	R5	Vx1-5

Ratings, types and voltages

ACH580-VDR, vertical E-Clipse bypass drive with non-fused disconnect switch

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1
	Current	Power		
	A	HP		
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz				
ACH580-VDR-04A6-2	4.6	1	R1	Vx1-1
ACH580-VDR-06A6-2	6.6	1.5	R1	Vx1-1
ACH580-VDR-07A5-2	7.5	2	R1	Vx1-1
ACH580-VDR-10A6-2	10.6	3	R1	Vx1-1
ACH580-VDR-017A-2	16.7	5	R1	Vx1-1
ACH580-VDR-024A-2	24.2	7.5	R2	Vx1-2
ACH580-VDR-031A-2	30.8	10	R2	Vx1-3
ACH580-VDR-046A-2	46.2	15	R3	Vx1-4
ACH580-VDR-059A-2	59.4	20	R3	Vx1-4
ACH580-VDR-075A-2	74.8	25	R4	Vx1-4
U_1 = 380 to 480 V. Power ratings are valid at output voltage U_N = 460 V 60 Hz				
ACH580-VDR-02A1-4	2.1	1	R1	Vx1-1
ACH580-VDR-03A0-4	3	1.5	R1	Vx1-1
ACH580-VDR-03A5-4	3.5	2	R1	Vx1-1
ACH580-VDR-04A8-4	4.8	3	R1	Vx1-1
ACH580-VDR-07A6-4	7.6	5	R1	Vx1-1
ACH580-VDR-012A-4	12	7.5	R1	Vx1-1
ACH580-VDR-014A-4	14	10	R2	Vx1-2
ACH580-VDR-023A-4	23	15	R2	Vx1-2
ACH580-VDR-027A-4	27	20	R3	Vx1-3
ACH580-VDR-034A-4	34	25	R3	Vx1-3
ACH580-VDR-044A-4	44	30	R3	Vx1-3
ACH580-VDR-052A-4	52	40	R4	Vx1-4
ACH580-VDR-065A-4	65	50	R4	Vx1-4
ACH580-VDR-077A-4	77	60	R4	Vx1-4
U_1 = 500 to 600 V. Power ratings are valid at output voltage U_N = 575 V 60 Hz				
ACH580-VDR-02A7-6	2.7	2	R2	Vx1-2
ACH580-VDR-03A9-6	3.9	3	R2	Vx1-2
ACH580-VDR-06A1-6	6.1	5	R2	Vx1-2
ACH580-VDR-09A0-6	9	7.5	R2	Vx1-2
ACH580-VDR-011A-6	11	10	R2	Vx1-2
ACH580-VDR-017A-6	17	15	R2	Vx1-2
ACH580-VDR-022A-6	22	20	R3	Vx1-3
ACH580-VDR-027A-6	27	25	R3	Vx1-3
ACH580-VDR-032A-6	32	30	R3	Vx1-3
ACH580-VDR-041A-6	41	40	R5	Vx1-5
ACH580-VDR-052A-6	52	50	R5	Vx1-5
ACH580-VDR-062A-6	62	60	R5	Vx1-5
ACH580-VDR-077A-6	77	75	R5	Vx1-5

Ratings, types and voltages

ACH580-BCR, E-Clipse bypass drive with circuit breaker

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-BCR-04A6-2	4.6	1	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-06A6-2	6.6	1.5	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-07A5-2	7.5	2	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-10A6-2	10.6	3	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-017A-2	16.7	5	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-024A-2	24.2	7.5	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-031A-2	30.8	10	R2	Bx1-2	Bx12-2	Bx3R-2
ACH580-BCR-046A-2	46.2	15	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BCR-059A-2	59.4	20	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BCR-075A-2	74.8	25	R4	Bx1-2	Bx12-2	Bx3R-2
ACH580-BCR-088A-2	88	30	R5	Bx1-4	Bx12-4	Bx3R-4
ACH580-BCR-114A-2	114	40	R5	Bx1-4	Bx12-4	Bx3R-4
ACH580-BCR-143A-2	143	50	R6	Bx1-5	Bx12-4	Bx3R-4
ACH580-BCR-169A-2	169	60	R7	Bx1-5	Bx12-4	Bx3R-4
ACH580-BCR-211A-2	211	75	R7	Bx1-5	Bx12-5	Bx3R-5
ACH580-BCR-273A-2	273	100	R8	Bx1-5	Bx12-5	Bx3R-5
U_1 = 440 to 480 V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-BCR-02A1-4	2.1	1	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-03A0-4	3	1.5	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-03A5-4	3.5	2	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-04A8-4	4.8	3	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-07A6-4	7.6	5	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-012A-4	12	7.5	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-014A-4	14	10	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-023A-4	23	15	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-027A-4	27	20	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BCR-034A-4	34	25	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BCR-044A-4	44	30	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BCR-052A-4	52	40	R4	Bx1-2	Bx12-2	Bx3R-2
ACH580-BCR-065A-4	65	50	R4	Bx1-2	Bx12-2	Bx3R-2
ACH580-BCR-077A-4	77	60	R4	Bx1-2	Bx12-2	Bx3R-2
ACH580-BCR-096A-4	96	75	R5	Bx1-4	Bx12-4	Bx3R-4
ACH580-BCR-124A-4	124	100	R6	Bx1-5	Bx12-4	Bx3R-4
ACH580-BCR-156A-4	156	125	R7	Bx1-5	Bx12-4	Bx3R-4
ACH580-BCR-180A-4	180	150	R7	Bx1-5	Bx12-4	Bx3R-4
ACH580-BCR-240A-4	240	200	R8	Bx1-6	Bx12-6	Bx3R-5
ACH580-BCR-302A-4	302	250	R9	Bx1-7	Bx12-7	Bx3R-6
ACH580-BCR-361A-4	361	300	R9	Bx1-7	Bx12-7	Bx3R-6
ACH580-BCR-414A-4	414	350	R9	Bx1-7	Bx12-7	Bx3R-6
ACH580-BCR-505A-4	483	400	R10	Contact Factory		
ACH580-BCR-585A-4	573	450	R10			
ACH580-BCR-650A-4	623	500	R10			
ACH580-BCR-725A-4	705	600	R11			
ACH580-BCR-820A-4	807	700	R11			
ACH580-BCR-880A-4	807	700	R11			

Ratings, types and voltages

ACH580-BCR, E-Clipse bypass drive with circuit breaker

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) 3R
	Current	Power				
	A	HP				
U_1 = 500 to 600 V. Power ratings are valid at output voltage U_N = 575 V 60 Hz						
ACH580-BCR-02A7-6	2.7	2	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-03A9-6	3.9	3	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-06A1-6	6.1	5	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-09A0-6	9	7.5	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-011A-6	11	10	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-017A-6	17	15	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BCR-022A-6	22	20	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BCR-027A-6	27	25	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BCR-032A-6	32	30	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BCR-041A-6	41	40	R5	Bx1-3	Bx12-3	Contact Factory
ACH580-BCR-052A-6	52	50	R5	Bx1-3	Bx12-3	
ACH580-BCR-062A-6	62	60	R5	Bx1-3	Bx12-3	
ACH580-BCR-077A-6	77	75	R5	Bx1-3	Bx12-3	
ACH580-BCR-099A-6	99	100	R7	Bx1-3	Bx12-3	
ACH580-BCR-125A-6	125	125	R7	Bx1-3	Bx12-3	
ACH580-BCR-144A-6	144	150	R8	Bx1-3	Bx12-3	

Ratings, types and voltages

ACH580-BDR, E-Clipse bypass drive with non-fused disconnect switch

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-BDR-04A6-2	4.6	1	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-06A6-2	6.6	1.5	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-07A5-2	7.5	2	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-10A6-2	10.6	3	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-017A-2	16.7	5	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-024A-2	24.2	7.5	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-031A-2	30.8	10	R2	Bx1-2	Bx12-2	Bx3R-2
ACH580-BDR-046A-2	46.2	15	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BDR-059A-2	59.4	20	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BDR-075A-2	74.8	25	R4	Bx1-2	Bx12-2	Bx3R-2
ACH580-BDR-088A-2	88	30	R5	Bx1-4	Bx12-4	Bx3R-4
ACH580-BDR-114A-2	114	40	R5	Bx1-4	Bx12-4	Bx3R-4
ACH580-BDR-143A-2	143	50	R6	Bx1-5	Bx12-4	Bx3R-4
ACH580-BDR-169A-2	169	60	R7	Bx1-5	Bx12-4	Bx3R-4
ACH580-BDR-211A-2	211	75	R7	Bx1-5	Bx12-5	Bx3R-5
ACH580-BDR-273A-2	273	100	R8	Bx1-5	Bx12-5	Bx3R-5
U_1 = 440 to 480 V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-BDR-02A1-4	2.1	1	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-03A0-4	3	1.5	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-03A5-4	3.5	2	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-04A8-4	4.8	3	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-07A6-4	7.6	5	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-012A-4	12	7.5	R1	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-014A-4	14	10	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-023A-4	23	15	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-027A-4	27	20	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BDR-034A-4	34	25	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BDR-044A-4	44	30	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BDR-052A-4	52	40	R4	Bx1-2	Bx12-2	Bx3R-2
ACH580-BDR-065A-4	65	50	R4	Bx1-2	Bx12-2	Bx3R-2
ACH580-BDR-077A-4	77	60	R4	Bx1-2	Bx12-2	Bx3R-2
ACH580-BDR-096A-4	96	75	R5	Bx1-4	Bx12-4	Bx3R-4
ACH580-BDR-124A-4	124	100	R6	Bx1-5	Bx12-4	Bx3R-4
ACH580-BDR-156A-4	156	125	R7	Bx1-5	Bx12-4	Bx3R-4
ACH580-BDR-180A-4	180	150	R7	Bx1-5	Bx12-4	Bx3R-4
ACH580-BDR-240A-4	240	200	R8	Bx1-6	Bx12-6	Bx3R-5
ACH580-BDR-302A-4	302	250	R9	Bx1-7	Bx12-7	Bx3R-6
ACH580-BDR-361A-4	361	300	R9	Bx1-7	Bx12-7	Bx3R-6
ACH580-BDR-414A-4	414	350	R9	Bx1-7	Bx12-7	Bx3R-6
ACH580-BDR-505A-4	483	400	R10	Contact Factory		
ACH580-BDR-585A-4	573	450	R10			
ACH580-BDR-650A-4	623	500	R10			
ACH580-BDR-725A-4	705	600	R11			
ACH580-BDR-820A-4	807	700	R11			
ACH580-BDR-880A-4	807	700	R11			

Ratings, types and voltages

ACH580-BDR, E-Clipse bypass drive with non-fused disconnect switch

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 500 to 600 V. Power ratings are valid at output voltage U_N = 575 V 60 Hz						
ACH580-BDR-02A7-6	2.7	2	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-03A9-6	3.9	3	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-06A1-6	6.1	5	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-09A0-6	9	7.5	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-011A-6	11	10	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-017A-6	17	15	R2	Bx1-1	Bx12-1	Bx3R-1
ACH580-BDR-022A-6	22	20	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BDR-027A-6	27	25	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BDR-032A-6	32	30	R3	Bx1-2	Bx12-2	Bx3R-2
ACH580-BDR-041A-6	41	40	R5	Bx1-3	Bx12-3	Contact
ACH580-BDR-052A-6	52	50	R5	Bx1-3	Bx12-3	Factory
ACH580-BDR-062A-6	62	60	R5	Bx1-3	Bx12-3	
ACH580-BDR-077A-6	77	75	R5	Bx1-3	Bx12-3	
ACH580-BDR-099A-6	99	100	R7	Bx1-3	Bx12-3	
ACH580-BDR-125A-6	125	125	R7	Bx1-3	Bx12-3	
ACH580-BDR-144A-6	144	150	R8	Bx1-3	Bx12-3	

Ratings, types and voltages

ACH580-BCR, E-Clipse bypass drive with input harmonic filter with circuit breaker

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-BCR-04A6-2+E211	4.6	1	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-06A6-2+E211	6.6	1.5	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-07A5-2+E211	7.5	2	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-10A6-2+E211	10.6	3	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-017A-2+E211	16.7	5	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-024A-2+E211	24.2	7.5	R2	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-031A-2+E211	30.8	10	R2	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-046A-2+E211	46.2	15	R3	Cx1-23	Cx12-24	CX3R-24
ACH580-BCR-059A-2+E211	59.4	20	R3	Cx1-23	Cx12-24	CX3R-24
ACH580-BCR-075A-2+E211	74.8	25	R4	Cx1-24	Cx12-24	CX3R-24
ACH580-BCR-088A-2+E211	88	30	R5	Cx1-24	Cx12-24	CX3R-24
ACH580-BCR-114A-2+E211	114	40	R5	Cx1-24	Cx12-24	CX3R-25
ACH580-BCR-143A-2+E211	143	50	R6	Cx1-24	Cx12-25	CX3R-25
ACH580-BCR-169A-2+E211	169	60	R7	Cx1-27	Cx12-27	CX3R-27
ACH580-BCR-211A-2+E211	211	75	R7	Cx1-27	Cx12-27	CX3R-27
ACH580-BCR-273A-2+E211	273	100	R8	Cx1-29	Cx12-29	CX3R-29
U_1 = 440 to 480V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-BCR-02A1-4+E211	2.1	1	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-03A0-4+E211	3	1.5	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-03A5-4+E211	3.5	2	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-04A8-4+E211	4.8	3	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-07A6-4+E211	7.6	5	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-012A-4+E211	12	7.5	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-014A-4+E211	14	10	R2	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-023A-4+E211	23	15	R2	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-027A-4+E211	27	20	R3	Cx1-23	Cx12-23	CX3R-23
ACH580-BCR-034A-4+E211	34	25	R3	Cx1-23	Cx12-23	CX3R-23
ACH580-BCR-044A-4+E211	44	30	R3	Cx1-23	Cx12-24	CX3R-24
ACH580-BCR-052A-4+E211	52	40	R4	Cx1-24	Cx12-24	CX3R-24
ACH580-BCR-065A-4+E211	65	50	R4	Cx1-24	Cx12-24	CX3R-24
ACH580-BCR-077A-4+E211	77	60	R4	Cx1-24	Cx12-24	CX3R-24
ACH580-BCR-096A-4+E211	96	75	R5	Cx1-24	Cx12-24	CX3R-24
ACH580-BCR-124A-4+E211	124	100	R6	Cx1-24	Cx12-25	CX3R-25
ACH580-BCR-156A-4+E211	156	125	R7	Cx1-27	Cx12-27	CX3R-27
ACH580-BCR-180A-4+E211	180	150	R7	Cx1-27	Cx12-27	CX3R-27
ACH580-BCR-240A-4+E211	240	200	R8	Cx1-29	Cx12-29	CX3R-29
ACH580-BCR-302A-4+E211	302	250	R9	Cx1-31	Cx12-31	CX3R-32
ACH580-BCR-361A-4+E211	361	300	R9	Cx1-31	Cx12-31	CX3R-32
ACH580-BCR-414A-4+E211	414	350	R9	Cx1-31	Cx12-31	CX3R-32

Ratings, types and voltages

ACH580-BDR, E-Clipse bypass drive with input harmonic filter with non-fused disconnect switch

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-BDR-04A6-2+E211	4.6	1	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-06A6-2+E211	6.6	1.5	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-07A5-2+E211	7.5	2	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-10A6-2+E211	10.6	3	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-017A-2+E211	16.7	5	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-024A-2+E211	24.2	7.5	R2	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-031A-2+E211	30.8	10	R2	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-046A-2+E211	46.2	15	R3	Cx1-23	Cx12-24	CX3R-24
ACH580-BDR-059A-2+E211	59.4	20	R3	Cx1-23	Cx12-24	CX3R-24
ACH580-BDR-075A-2+E211	74.8	25	R4	Cx1-24	Cx12-24	CX3R-24
ACH580-BDR-088A-2+E211	88	30	R5	Cx1-24	Cx12-24	CX3R-24
ACH580-BDR-114A-2+E211	114	40	R5	Cx1-24	Cx12-24	CX3R-25
ACH580-BDR-143A-2+E211	143	50	R6	Cx1-24	Cx12-25	CX3R-25
ACH580-BDR-169A-2+E211	169	60	R7	Cx1-27	Cx12-27	CX3R-27
ACH580-BDR-211A-2+E211	211	75	R7	Cx1-27	Cx12-27	CX3R-27
ACH580-BDR-273A-2+E211	273	100	R8	Cx1-29	Cx12-29	CX3R-29
U_1 = 440 to 480V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-BDR-02A1-4+E211	2.1	1	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-03A0-4+E211	3	1.5	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-03A5-4+E211	3.5	2	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-04A8-4+E211	4.8	3	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-07A6-4+E211	7.6	5	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-012A-4+E211	12	7.5	R1	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-014A-4+E211	14	10	R2	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-023A-4+E211	23	15	R2	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-027A-4+E211	27	20	R3	Cx1-23	Cx12-23	CX3R-23
ACH580-BDR-034A-4+E211	34	25	R3	Cx1-23	Cx12-23	CX3R-23
ACH580-BDR-044A-4+E211	44	30	R3	Cx1-23	Cx12-24	CX3R-24
ACH580-BDR-052A-4+E211	52	40	R4	Cx1-24	Cx12-24	CX3R-24
ACH580-BDR-065A-4+E211	65	50	R4	Cx1-24	Cx12-24	CX3R-24
ACH580-BDR-077A-4+E211	77	60	R4	Cx1-24	Cx12-24	CX3R-24
ACH580-BDR-096A-4+E211	96	75	R5	Cx1-24	Cx12-24	CX3R-24
ACH580-BDR-124A-4+E211	124	100	R6	Cx1-24	Cx12-25	CX3R-25
ACH580-BDR-156A-4+E211	156	125	R7	Cx1-27	Cx12-27	CX3R-27
ACH580-BDR-180A-4+E211	180	150	R7	Cx1-27	Cx12-27	CX3R-27
ACH580-BDR-240A-4+E211	240	200	R8	Cx1-29	Cx12-29	CX3R-29
ACH580-BDR-302A-4+E211	302	250	R9	Cx1-31	Cx12-31	CX3R-32
ACH580-BDR-361A-4+E211	361	300	R9	Cx1-31	Cx12-31	CX3R-32
ACH580-BDR-414A-4+E211	414	350	R9	Cx1-31	Cx12-31	CX3R-32

Ratings, types and voltages

ACH580-BCR, E-Clipse bypass drive with special enclosure with circuit breaker

Type code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 4	Dim Ref UL (NEMA) Type 4x	Dim Ref UL (NEMA) Type 3RXSS
	Drive Current	Package Power				
	A	HP				
U_1 = 200 to 240V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-BCR-04A6-2	4.6	1	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BCR-06A6-2	6.6	1.5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BCR-07A5-2	7.5	2	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BCR-10A6-2	10.6	3	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BCR-017A-2	16.7	5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BCR-024A-2	24.2	7.5	R2	CX4-10	CX4X-10	CX3RX-11
ACH580-BCR-031A-2	30.8	10	R2	CX4-11	CX4X-11	CX3RX-12
ACH580-BCR-046A-2	46.2	15	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-BCR-059A-2	59.4	20	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-BCR-075A-2	74.8	25	R4	CX4-12	CX4X-12	CX3RX-13
ACH580-BCR-088A-2	88	30	R5	CX4-12	CX4X-12	CX3RX-13
ACH580-BCR-114A-2	114	40	R5	CX4-13	CX4X-13	CX3RX-13
ACH580-BCR-143A-2	143	50	R6	CX4-15	CX4X-15	CX3RX-14
ACH580-BCR-169A-2	169	60	R7	CX4-16	CX4X-16	CX3RX-14
ACH580-BCR-211A-2	211	75	R7	CX4-18	CX4X-18	CX3RX-15
ACH580-BCR-273A-2	273	100	R8	CX4-19	CX4X-19	CX3RX-15
U_1 = 440 to 480V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-BCR-02A1-4	2.1	1	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BCR-03A0-4	3	1.5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BCR-03A5-4	3.5	2	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BCR-04A8-4	4.8	3	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BCR-07A6-4	7.6	5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BCR-012A-4	12	7.5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BCR-014A-4	14	10	R2	CX4-10	CX4X-10	CX3RX-11
ACH580-BCR-023A-4	23	15	R2	CX4-11	CX4X-11	CX3RX-11
ACH580-BCR-027A-4	27	20	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-BCR-034A-4	34	25	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-BCR-044A-4	44	30	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-BCR-052A-4	52	40	R4	CX4-13	CX4X-13	CX3RX-13
ACH580-BCR-065A-4	65	50	R4	CX4-13	CX4X-13	CX3RX-13
ACH580-BCR-077A-4	77	60	R4	CX4-14	CX4X-14	CX3RX-13
ACH580-BCR-096A-4	96	75	R5	CX4-14	CX4X-14	CX3RX-13
ACH580-BCR-124A-4	124	100	R6	CX4-16	CX4X-16	CX3RX-14
ACH580-BCR-156A-4	156	125	R7	CX4-17	CX4X-17	CX3RX-14
ACH580-BCR-180A-4	180	150	R7	CX4-19	CX4X-19	CX3RX-14
ACH580-BCR-240A-4	240	200	R8	CX4-20	CX4X-20	CX3RX-15

Ratings, types and voltages

ACH580-BDR, E-Clipse bypass drive with special enclosure with non-fused disconnect switch

Type code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 4	Dim Ref UL (NEMA) Type 4x	Dim Ref UL (NEMA) Type 3RXSS
	Drive Current	Package Power				
	A	HP				
U_1 = 200 to 240V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-BDR-04A6-2	4.6	1	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BDR-06A6-2	6.6	1.5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BDR-07A5-2	7.5	2	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BDR-10A6-2	10.6	3	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BDR-017A-2	16.7	5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BDR-024A-2	24.2	7.5	R2	CX4-10	CX4X-10	CX3RX-11
ACH580-BDR-031A-2	30.8	10	R2	CX4-11	CX4X-11	CX3RX-12
ACH580-BDR-046A-2	46.2	15	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-BDR-059A-2	59.4	20	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-BDR-075A-2	74.8	25	R4	CX4-12	CX4X-12	CX3RX-13
ACH580-BDR-088A-2	88	30	R5	CX4-12	CX4X-12	CX3RX-13
ACH580-BDR-114A-2	114	40	R5	CX4-13	CX4X-13	CX3RX-13
ACH580-BDR-143A-2	143	50	R6	CX4-15	CX4X-15	CX3RX-14
ACH580-BDR-169A-2	169	60	R7	CX4-16	CX4X-16	CX3RX-14
ACH580-BDR-211A-2	211	75	R7	CX4-18	CX4X-18	CX3RX-15
ACH580-BDR-273A-2	273	100	R8	CX4-19	CX4X-19	CX3RX-15
U_1 = 440 to 480V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-BDR-02A1-4	2.1	1	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BDR-03A0-4	3	1.5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BDR-03A5-4	3.5	2	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BDR-04A8-4	4.8	3	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BDR-07A6-4	7.6	5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BDR-012A-4	12	7.5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-BDR-014A-4	14	10	R2	CX4-10	CX4X-10	CX3RX-11
ACH580-BDR-023A-4	23	15	R2	CX4-11	CX4X-11	CX3RX-11
ACH580-BDR-027A-4	27	20	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-BDR-034A-4	34	25	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-BDR-044A-4	44	30	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-BDR-052A-4	52	40	R4	CX4-13	CX4X-13	CX3RX-13
ACH580-BDR-065A-4	65	50	R4	CX4-13	CX4X-13	CX3RX-13
ACH580-BDR-077A-4	77	60	R4	CX4-14	CX4X-14	CX3RX-13
ACH580-BDR-096A-4	96	75	R5	CX4-14	CX4X-14	CX3RX-13
ACH580-BDR-124A-4	124	100	R6	CX4-16	CX4X-16	CX3RX-14
ACH580-BDR-156A-4	156	125	R7	CX4-17	CX4X-17	CX3RX-14
ACH580-BDR-180A-4	180	150	R7	CX4-19	CX4X-19	CX3RX-14
ACH580-BDR-240A-4	240	200	R8	CX4-20	CX4X-20	CX3RX-15

Ratings, types and voltages

ACH580-BCR, enclosed with soft start E-Clipse bypass drive with circuit breaker

Type code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-BCR-04A6-2+G390	4.6	1	R1	CX1-21	CX12-22	CX3R-22
ACH580-BCR-06A6-2+G390	6.6	1.5	R1	CX1-21	CX12-22	CX3R-22
ACH580-BCR-07A5-2+G390	7.5	2	R1	CX1-21	CX12-22	CX3R-22
ACH580-BCR-10A6-2+G390	10.6	3	R1	CX1-21	CX12-22	CX3R-22
ACH580-BCR-017A-2+G390	16.7	5	R1	CX1-21	CX12-22	CX3R-22
ACH580-BCR-024A-2+G390	24.2	7.5	R2	CX1-21	CX12-22	CX3R-22
ACH580-BCR-031A-2+G390	30.8	10	R2	CX1-22	CX12-22	CX3R-22
ACH580-BCR-046A-2+G390	46.2	15	R3	CX1-22	CX12-23	CX3R-23
ACH580-BCR-059A-2+G390	59.4	20	R3	CX1-22	CX12-23	CX3R-23
ACH580-BCR-075A-2+G390	74.8	25	R4	CX1-23	CX12-23	CX3R-23
ACH580-BCR-088A-2+G390	88	30	R5	CX1-24	CX12-24	CX3R-24
ACH580-BCR-114A-2+G390	114	40	R5	CX1-24	CX12-24	CX3R-24
ACH580-BCR-143A-2+G390	143	50	R6	CX1-24	CX12-25	CX3R-25
ACH580-BCR-169A-2+G390	169	60	R7	CX1-24	CX12-25	CX3R-25
ACH580-BCR-211A-2+G390	211	75	R7	CX1-27	CX12-27	CX3R-27
ACH580-BCR-273A-2+G390	273	100	R8	CX1-27	CX12-27	CX3R-27
U_1 = 440 to 480V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-BCR-02A1-4+G390	2.1	1	R1	CX1-21	CX12-22	CX3R-22
ACH580-BCR-03A0-4+G390	3	1.5	R1	CX1-21	CX12-22	CX3R-22
ACH580-BCR-03A5-4+G390	3.4	2	R1	CX1-21	CX12-22	CX3R-22
ACH580-BCR-04A8-4+G390	4.8	3	R1	CX1-21	CX12-22	CX3R-22
ACH580-BCR-07A6-4+G390	7.6	5	R1	CX1-21	CX12-22	CX3R-22
ACH580-BCR-012A-4+G390	11	7.5	R1	CX1-21	CX12-22	CX3R-22
ACH580-BCR-014A-4+G390	14	10	R2	CX1-21	CX12-22	CX3R-22
ACH580-BCR-023A-4+G390	21	15	R2	CX1-21	CX12-22	CX3R-22
ACH580-BCR-027A-4+G390	27	20	R3	CX1-22	CX12-23	CX3R-23
ACH580-BCR-034A-4+G390	34	25	R3	CX1-22	CX12-23	CX3R-23
ACH580-BCR-044A-4+G390	40	30	R3	CX1-22	CX12-23	CX3R-23
ACH580-BCR-052A-4+G390	52	40	R4	CX1-22	CX12-23	CX3R-23
ACH580-BCR-065A-4+G390	65	50	R4	CX1-22	CX12-23	CX3R-23
ACH580-BCR-077A-4+G390	77	60	R4	CX1-23	CX12-23	CX3R-23
ACH580-BCR-096A-4+G390	96	75	R5	CX1-24	CX12-24	CX3R-24
ACH580-BCR-124A-4+G390	124	100	R6	CX1-24	CX12-24	CX3R-24
ACH580-BCR-156A-4+G390	156	125	R7	CX1-24	CX12-25	CX3R-25
ACH580-BCR-180A-4+G390	180	150	R7	CX1-27	CX12-27	CX3R-27
ACH580-BCR-240A-4+G390	240	200	R8	CX1-27	CX12-27	CX3R-27
ACH580-BCR-302A-4+G390	302	250	R9	CX1-31	CX12-31	CX3R-31
ACH580-BCR-361A-4+G390	361	300	R9	CX1-31	CX12-31	CX3R-31
ACH580-BCR-414A-4+G390	414	350	R9	CX1-31	CX12-31	CX3R-31

Ratings, types and voltages

ACH580-BDR, enclosed with soft start E-Clipse bypass drive with non-fused disconnect switch

Type code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-BDR-04A6-2+G390	4.6	1	R1	CX1-21	CX12-22	CX3R-22
ACH580-BDR-06A6-2+G390	6.6	1.5	R1	CX1-21	CX12-22	CX3R-22
ACH580-BDR-07A5-2+G390	7.5	2	R1	CX1-21	CX12-22	CX3R-22
ACH580-BDR-10A6-2+G390	10.6	3	R1	CX1-21	CX12-22	CX3R-22
ACH580-BDR-017A-2+G390	16.7	5	R1	CX1-21	CX12-22	CX3R-22
ACH580-BDR-024A-2+G390	24.2	7.5	R2	CX1-21	CX12-22	CX3R-22
ACH580-BDR-031A-2+G390	30.8	10	R2	CX1-22	CX12-22	CX3R-22
ACH580-BDR-046A-2+G390	46.2	15	R3	CX1-22	CX12-23	CX3R-23
ACH580-BDR-059A-2+G390	59.4	20	R3	CX1-22	CX12-23	CX3R-23
ACH580-BDR-075A-2+G390	74.8	25	R4	CX1-23	CX12-23	CX3R-23
ACH580-BDR-088A-2+G390	88	30	R5	CX1-24	CX12-24	CX3R-24
ACH580-BDR-114A-2+G390	114	40	R5	CX1-24	CX12-24	CX3R-24
ACH580-BDR-143A-2+G390	143	50	R6	CX1-24	CX12-25	CX3R-25
ACH580-BDR-169A-2+G390	169	60	R7	CX1-24	CX12-25	CX3R-25
ACH580-BDR-211A-2+G390	211	75	R7	CX1-27	CX12-27	CX3R-27
ACH580-BDR-273A-2+G390	273	100	R8	CX1-27	CX12-27	CX3R-27
U_1 = 440 to 480V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-BDR-02A1-4+G390	2.1	1	R1	CX1-21	CX12-22	CX3R-22
ACH580-BDR-03A0-4+G390	3	1.5	R1	CX1-21	CX12-22	CX3R-22
ACH580-BDR-03A5-4+G390	3	2	R1	CX1-21	CX12-22	CX3R-22
ACH580-BDR-04A8-4+G390	4.8	3	R1	CX1-21	CX12-22	CX3R-22
ACH580-BDR-07A6-4+G390	7.6	5	R1	CX1-21	CX12-22	CX3R-22
ACH580-BDR-012A-4+G390	11	7.5	R1	CX1-21	CX12-22	CX3R-22
ACH580-BDR-014A-4+G390	14	10	R2	CX1-21	CX12-22	CX3R-22
ACH580-BDR-023A-4+G390	21	15	R2	CX1-21	CX12-22	CX3R-22
ACH580-BDR-027A-4+G390	27	20	R3	CX1-22	CX12-23	CX3R-23
ACH580-BDR-034A-4+G390	34	25	R3	CX1-22	CX12-23	CX3R-23
ACH580-BDR-044A-4+G390	40	30	R3	CX1-22	CX12-23	CX3R-23
ACH580-BDR-052A-4+G390	52	40	R4	CX1-22	CX12-23	CX3R-23
ACH580-BDR-065A-4+G390	65	50	R4	CX1-22	CX12-23	CX3R-23
ACH580-BDR-077A-4+G390	77	60	R4	CX1-23	CX12-23	CX3R-23
ACH580-BDR-096A-4+G390	96	75	R5	CX1-24	CX12-24	CX3R-24
ACH580-BDR-124A-4+G390	124	100	R6	CX1-24	CX12-24	CX3R-24
ACH580-BDR-156A-4+G390	156	125	R7	CX1-24	CX12-25	CX3R-25
ACH580-BDR-180A-4+G390	180	150	R7	CX1-27	CX12-27	CX3R-27
ACH580-BDR-240A-4+G390	240	200	R8	CX1-27	CX12-27	CX3R-27
ACH580-BDR-302A-4+G390	302	250	R9	CX1-31	CX12-31	CX3R-31
ACH580-BDR-361A-4+G390	361	300	R9	CX1-31	CX12-31	CX3R-31
ACH580-BDR-414A-4+G390	414	350	R9	CX1-31	CX12-31	CX3R-31

Ratings, types and voltages

ACH580-BCR, E-Clipse bypass drive with manual motor protectors with circuit breaker

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA)Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-BCR-04A6-2+xG405+M6xx	4.6	1	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BCR-06A6-2+xG405+M6xx	6.6	1.5	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BCR-07A5-2+xG405+M6xx	7.5	2	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BCR-10A6-2+xG405+M6xx	10.6	3	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BCR-017A-2+xG405+M6xx	16.7	5	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BCR-024A-2+xG405+M6xx	24.2	7.5	R2	Cx1-21	Cx12-22	CX3R-22
ACH580-BCR-031A-2+xG405+M6xx	30.8	10	R2	Cx1-21	Cx12-22	CX3R-22
ACH580-BCR-046A-2+xG405+M6xx	46.2	15	R3	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-059A-2+xG405+M6xx	59.4	20	R3	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-075A-2+xG405+M6xx	74.8	25	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-088A-2+xG405+M6xx	88	30	R5	Cx1-23	Cx12-24	CX3R-24
ACH580-BCR-114A-2+xG405+M6xx	114	40	R5	Cx1-23	Cx12-24	CX3R-24
ACH580-BCR-143A-2+xG405+M6xx	143	50	R6	Cx1-24	Cx12-24	CX3R-24
ACH580-BCR-169A-2+xG405+M6xx	169	60	R7	Cx1-24	Cx12-24	CX3R-24
ACH580-BCR-211A-2+xG405+M6xx	211	75	R7	Cx1-24	Cx12-25	CX3R-25
ACH580-BCR-273A-2+xG405+M6xx	273	100	R8	Cx1-24	Cx12-25	CX3R-25
U_1 = 440 to 480V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-BCR-02A1-4+xG405+M6xx	2.1	1	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BCR-03A0-4+xG405+M6xx	3	1.5	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BCR-03A5-4+xG405+M6xx	3.5	2	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BCR-04A8-4+xG405+M6xx	4.8	3	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BCR-07A6-4+xG405+M6xx	7.6	5	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BCR-012A-4+xG405+M6xx	12	7.5	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BCR-014A-4+xG405+M6xx	14	10	R2	Cx1-21	Cx12-22	CX3R-22
ACH580-BCR-023A-4+xG405+M6xx	23	15	R2	Cx1-21	Cx12-22	CX3R-22
ACH580-BCR-027A-4+xG405+M6xx	27	20	R3	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-034A-4+xG405+M6xx	34	25	R3	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-044A-4+xG405+M6xx	44	30	R3	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-052A-4+xG405+M6xx	52	40	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-065A-4+xG405+M6xx	65	50	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-078A-4+xG405+M6xx	77	60	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-BCR-096A-4+xG405+M6xx	96	75	R5	Cx1-23	Cx12-24	CX3R-24
ACH580-BCR-124A-4+xG405+M6xx	124	100	R6	Cx1-24	Cx12-24	CX3R-24
ACH580-BCR-156A-4+xG405+M6xx	156	125	R7	Cx1-24	Cx12-24	CX3R-24
ACH580-BCR-180A-4+xG405+M6xx	180	150	R7	Cx1-24	Cx12-24	CX3R-24
ACH580-BCR-240A-4+xG405+M6xx	240	200	R8	Cx1-24	Cx12-25	CX3R-25

Enclosure dimensions depend on the number of manual motor protectors included in the enclosure.
Consult factory submittal drawings to confirm enclosure size.

Ratings, types and voltages

ACH580-BDR, E-Clipse bypass drive with manual motor protectors with non-fused disconnect switch

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-BDR-04A6-2+xG405+M6xx	4.6	1	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BDR-06A6-2+xG405+M6xx	6.6	1.5	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BDR-07A5-2+xG405+M6xx	7.5	2	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BDR-10A6-2+xG405+M6xx	10.6	3	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BDR-017A-2+xG405+M6xx	16.7	5	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BDR-024A-2+xG405+M6xx	24.2	7.5	R2	Cx1-21	Cx12-22	CX3R-22
ACH580-BDR-031A-2+xG405+M6xx	30.8	10	R2	Cx1-21	Cx12-22	CX3R-22
ACH580-BDR-046A-2+xG405+M6xx	46.2	15	R3	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-059A-2+xG405+M6xx	59.4	20	R3	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-075A-2+xG405+M6xx	74.8	25	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-088A-2+xG405+M6xx	88	30	R5	Cx1-23	Cx12-24	CX3R-24
ACH580-BDR-114A-2+xG405+M6xx	114	40	R5	Cx1-23	Cx12-24	CX3R-24
ACH580-BDR-143A-2+xG405+M6xx	143	50	R6	Cx1-24	Cx12-24	CX3R-24
ACH580-BDR-169A-2+xG405+M6xx	169	60	R7	Cx1-24	Cx12-24	CX3R-24
ACH580-BDR-211A-2+xG405+M6xx	211	75	R7	Cx1-24	Cx12-25	CX3R-25
ACH580-BDR-273A-2+xG405+M6xx	273	100	R8	Cx1-24	Cx12-25	CX3R-25
U_1 = 440 to 480V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-BDR-02A1-4+xG405+M6xx	2.1	1	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BDR-03A0-4+xG405+M6xx	3	1.5	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BDR-03A5-4+xG405+M6xx	3.5	2	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BDR-04A8-4+xG405+M6xx	4.8	3	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BDR-07A6-4+xG405+M6xx	7.6	5	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BDR-012A-4+xG405+M6xx	12	7.5	R1	Cx1-21	Cx12-22	CX3R-22
ACH580-BDR-014A-4+xG405+M6xx	14	10	R2	Cx1-21	Cx12-22	CX3R-22
ACH580-BDR-023A-4+xG405+M6xx	23	15	R2	Cx1-21	Cx12-22	CX3R-22
ACH580-BDR-027A-4+xG405+M6xx	27	20	R3	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-034A-4+xG405+M6xx	34	25	R3	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-044A-4+xG405+M6xx	44	30	R3	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-052A-4+xG405+M6xx	52	40	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-065A-4+xG405+M6xx	65	50	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-078A-4+xG405+M6xx	77	60	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-BDR-096A-4+xG405+M6xx	96	75	R5	Cx1-23	Cx12-24	CX3R-24
ACH580-BDR-124A-4+xG405+M6xx	124	100	R6	Cx1-24	Cx12-24	CX3R-24
ACH580-BDR-156A-4+xG405+M6xx	156	125	R7	Cx1-24	Cx12-24	CX3R-24
ACH580-BDR-180A-4+xG405+M6xx	180	150	R7	Cx1-24	Cx12-24	CX3R-24
ACH580-BDR-240A-4+xG405+M6xx	240	200	R8	Cx1-24	Cx12-25	CX3R-25

Enclosure dimensions depend on the number of manual motor protectors included in the enclosure.
Consult factory submittal drawings to confirm enclosure size.

Ratings, types and voltages

ACH580-PCR, packaged drive with disconnect means with circuit breaker

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-PCR-04A6-2	4.6	1	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PCR-06A6-2	6.6	1.5	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PCR-07A5-2	7.5	2	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PCR-10A6-2	10.6	3	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PCR-017A-2	16.7	5	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PCR-024A-2	24.2	7.5	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PCR-031A-2	30.8	10	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PCR-046A-2	46.2	15	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PCR-059A-2	59.4	20	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PCR-075A-2	74.8	25	R4	Px1-4	Px12-4	PxB3R-2
ACH580-PCR-088A-2	88	30	R5	PxB1-3	PxB12-3	PxB3R-3
ACH580-PCR-114A-2	114	40	R5	PxB1-3	PxB12-3	PxB3R-3
ACH580-PCR-143A-2	143	50	R6	PxB1-3	PxB12-3	PxB3R-4
ACH580-PCR-169A-2	169	60	R7	PxB1-3	PxB12-3	PxB3R-4
ACH580-PCR-211A-2	211	75	R7	PxB1-3	PxB12-3	PxB3R-4
ACH580-PCR-273A-2	273	100	R8	PxB1-5	PxB12-5	PxB3R-4
U_1 = 380 to 480 V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-PCR-02A1-4	2.1	1	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PCR-03A0-4	3	1.5	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PCR-03A5-4	3.5	2	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PCR-04A8-4	4.8	3	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PCR-07A6-4	7.6	5	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PCR-012A-4	12	7.5	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PCR-014A-4	14	10	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PCR-023A-4	23	15	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PCR-027A-4	27	20	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PCR-034A-4	34	25	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PCR-044A-4	44	30	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PCR-052A-4	52	40	R4	Px1-4	Px12-4	PxB3R-2
ACH580-PCR-065A-4	65	50	R4	Px1-4	Px12-4	PxB3R-2
ACH580-PCR-077A-4	77	60	R4	Px1-4	Px12-4	PxB3R-2
ACH580-PCR-096A-4	96	75	R5	PxB1-3	PxB12-3	PxB3R-3
ACH580-PCR-124A-4	124	100	R6	PxB1-3	PxB12-3	PxB3R-4
ACH580-PCR-156A-4	156	125	R7	PxB1-3	PxB12-3	PxB3R-4
ACH580-PCR-180A-4	180	150	R7	PxB1-3	PxB12-3	PxB3R-4
ACH580-PCR-240A-4	240	200	R8	PxB1-3	PxB12-3	PxB3R-4
ACH580-PCR-302A-4	302	250	R9	PxB1-6	PxB12-6	PxB3R-5
ACH580-PCR-361A-4	361	300	R9	PxB1-6	PxB12-6	PxB3R-5
ACH580-PCR-414A-4	414	350	R9	PxB1-6	PxB12-6	PxB3R-5
ACH580-PCR-505A-4	483	400	R10	Contact Factory		
ACH580-PCR-585A-4	573	450	R10			
ACH580-PCR-650A-4	623	500	R10			
ACH580-PCR-725A-4	705	600	R11			
ACH580-PCR-820A-4	807	700	R11			
ACH580-PCR-880A-4	807	700	R11			

Ratings, types and voltages

ACH580-PCR, packaged drive with disconnect means with circuit breaker

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 500 to 600 V. Power ratings are valid at output voltage U_N = 575 V 60 Hz						
ACH580-PCR-02A7-6	2.7	2	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PCR-03A9-6	3.9	3	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PCR-06A1-6	6.1	5	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PCR-09A0-6	9	7.5	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PCR-011A-6	11	10	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PCR-017A-6	17	15	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PCR-022A-6	22	20	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PCR-027A-6	27	25	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PCR-032A-6	32	30	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PCR-041A-6	41	40	R5	PxB1-3	PxB12-3	Contact Factory
ACH580-PCR-052A-6	52	50	R5	PxB1-3	PxB12-3	
ACH580-PCR-062A-6	62	60	R5	PxB1-3	PxB12-3	
ACH580-PCR-077A-6	77	75	R5	PxB1-3	PxB12-3	
ACH580-PCR-099A-6	99	100	R7	PxB1-3	PxB12-3	
ACH580-PCR-125A-6	125	125	R7	PxB1-3	PxB12-3	
ACH580-PCR-144A-6	144	150	R8	PxB1-3	PxB12-3	

Ratings, types and voltages

ACH580-PDR, packaged drive with disconnect means with non-fused disconnect switch

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA)Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-PDR-04A6-2	4.6	1	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PDR-06A6-2	6.6	1.5	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PDR-07A5-2	7.5	2	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PDR-10A6-2	10.6	3	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PDR-017A-2	16.7	5	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PDR-024A-2	24.2	7.5	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PDR-031A-2	30.8	10	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PDR-046A-2	46.2	15	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PDR-059A-2	59.4	20	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PDR-075A-2	74.8	25	R4	Px1-4	Px12-4	PxB3R-2
ACH580-PDR-088A-2	88	30	R5	PxB1-3	PxB12-3	PxB3R-3
ACH580-PDR-114A-2	114	40	R5	PxB1-3	PxB12-3	PxB3R-3
ACH580-PDR-143A-2	143	50	R6	PxB1-3	PxB12-3	PxB3R-4
ACH580-PDR-169A-2	169	60	R7	PxB1-3	PxB12-3	PxB3R-4
ACH580-PDR-211A-2	211	75	R7	PxB1-3	PxB12-3	PxB3R-4
ACH580-PDR-273A-2	273	100	R8	PxB1-5	PxB12-5	PxB3R-4
U_1 = 380 to 480 V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-PDR-02A1-4	2.1	1	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PDR-03A0-4	3	1.5	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PDR-03A5-4	3.5	2	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PDR-04A8-4	4.8	3	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PDR-07A6-4	7.6	5	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PDR-012A-4	12	7.5	R1	Px1-1	Px12-1	PxB3R-1
ACH580-PDR-014A-4	14	10	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PDR-023A-4	23	15	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PDR-027A-4	27	20	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PDR-034A-4	34	25	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PDR-044A-4	44	30	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PDR-052A-4	52	40	R4	Px1-4	Px12-4	PxB3R-2
ACH580-PDR-065A-4	65	50	R4	Px1-4	Px12-4	PxB3R-2
ACH580-PDR-077A-4	77	60	R4	Px1-4	Px12-4	PxB3R-2
ACH580-PDR-096A-4	96	75	R5	PxB1-3	PxB12-3	PxB3R-3
ACH580-PDR-124A-4	124	100	R6	PxB1-3	PxB12-3	PxB3R-4
ACH580-PDR-156A-4	156	125	R7	PxB1-3	PxB12-3	PxB3R-4
ACH580-PDR-180A-4	180	150	R7	PxB1-3	PxB12-3	PxB3R-4
ACH580-PDR-240A-4	240	200	R8	PxB1-3	PxB12-3	PxB3R-4
ACH580-PDR-302A-4	302	250	R9	PxB1-6	PxB12-6	PxB3R-5
ACH580-PDR-361A-4	361	300	R9	PxB1-6	PxB12-6	PxB3R-5
ACH580-PDR-414A-4	414	350	R9	PxB1-6	PxB12-6	PxB3R-5
ACH580-PDR-505A-4	483	400	R10	Contact Factory		
ACH580-PDR-585A-4	573	450	R10			
ACH580-PDR-650A-4	623	500	R10			
ACH580-PDR-725A-4	705	600	R11			
ACH580-PDR-820A-4	807	700	R11			
ACH580-PDR-880A-4	807	700	R11			

Ratings, types and voltages

ACH580-PDR, packaged drive with disconnect means with non-fused disconnect switch

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA)Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 500 to 600 V. Power ratings are valid at output voltage U_N = 575 V 60 Hz						
ACH580-PDR-02A7-6	2.7	2	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PDR-03A9-6	3.9	3	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PDR-06A1-6	6.1	5	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PDR-09A0-6	9	7.5	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PDR-011A-6	11	10	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PDR-017A-6	17	15	R2	Px1-2	Px12-2	PxB3R-1
ACH580-PDR-022A-6	22	20	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PDR-027A-6	27	25	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PDR-032A-6	32	30	R3	Px1-3	Px12-3	PxB3R-2
ACH580-PDR-041A-6	41	40	R5	PxB1-3	PxB12-3	Contact Factory
ACH580-PDR-052A-6	52	50	R5	PxB1-3	PxB12-3	
ACH580-PDR-062A-6	62	60	R5	PxB1-3	PxB12-3	
ACH580-PDR-077A-6	77	75	R5	PxB1-3	PxB12-3	
ACH580-PDR-099A-6	99	100	R7	PxB1-3	PxB12-3	
ACH580-PDR-125A-6	125	125	R7	PxB1-3	PxB12-3	
ACH580-PDR-144A-6	144	150	R8	PxB1-3	PxB12-3	

Ratings, types and voltages

ACH580-PCR, packaged drive with redundant drive with circuit breaker

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-PCR-04A6-2+C170	4.6	1	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PCR-06A6-2+C170	6.6	1.5	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PCR-07A5-2+C170	7.5	2	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PCR-10A6-2+C170	10.6	3	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PCR-017A-2+C170	16.7	5	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PCR-024A-2+C170	24.2	7.5	R2	Rx1-12	Rx12-12	RX3R-12
ACH580-PCR-031A-2+C170	30.8	10	R2	Rx1-12	Rx12-12	RX3R-12
ACH580-PCR-046A-2+C170	46.2	15	R3	Rx1-13	Rx12-12	RX3R-12
ACH580-PCR-059A-2+C170	59.4	20	R3	Rx1-13	Rx12-12	RX3R-12
ACH580-PCR-075A-2+C170	74.8	25	R4	Rx1-13	Rx12-13	RX3R-13
ACH580-PCR-088A-2+C170	88	30	R5	Rx1-14	Rx12-13	RX3R-13
ACH580-PCR-114A-2+C170	114	40	R5	Rx1-14	Rx12-13	RX3R-13
ACH580-PCR-143A-2+C170	143	50	R6	Rx1-14	Rx12-14	RX3R-14
ACH580-PCR-169A-2+C170	169	60	R7	Rx1-15	Rx12-15	RX3R-15
ACH580-PCR-211A-2+C170	211	75	R7	Rx1-15	Rx12-15	RX3R-15
ACH580-PCR-273A-2+C170	273	100	R8	Rx1-15	Rx12-15	RX3R-15
U_1 = 380 to 480 V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-PCR-02A1-4+C170	2.1	1	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PCR-03A0-4+C170	3	1.5	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PCR-03A5-4+C170	3.5	2	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PCR-04A8-4+C170	4.8	3	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PCR-07A6-4+C170	7.6	5	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PCR-012A-4+C170	12	7.5	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PCR-014A-4+C170	14	10	R2	Rx1-12	Rx12-12	RX3R-12
ACH580-PCR-023A-4+C170	23	15	R2	Rx1-12	Rx12-12	RX3R-12
ACH580-PCR-027A-4+C170	27	20	R3	Rx1-13	Rx12-12	RX3R-12
ACH580-PCR-034A-4+C170	34	25	R3	Rx1-13	Rx12-12	RX3R-12
ACH580-PCR-044A-4+C170	44	30	R3	Rx1-13	Rx12-12	RX3R-12
ACH580-PCR-052A-4+C170	52	40	R4	Rx1-13	Rx12-13	RX3R-13
ACH580-PCR-065A-4+C170	65	50	R4	Rx1-13	Rx12-13	RX3R-13
ACH580-PCR-077A-4+C170	77	60	R4	Rx1-13	Rx12-13	RX3R-13
ACH580-PCR-096A-4+C170	96	75	R5	Rx1-14	Rx12-13	RX3R-13
ACH580-PCR-124A-4+C170	124	100	R6	Rx1-14	Rx12-14	RX3R-14
ACH580-PCR-156A-4+C170	156	125	R7	Rx1-15	Rx12-15	RX3R-15
ACH580-PCR-180A-4+C170	180	150	R7	Rx1-15	Rx12-15	RX3R-15
ACH580-PCR-240A-4+C170	240	200	R8	Rx1-15	Rx12-15	RX3R-15

Ratings, types and voltages

ACH580-PDR, packaged drive with redundant drive with non-fused disconnect switch

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-PDR-04A6-2+C170	4.6	1	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PDR-06A6-2+C170	6.6	1.5	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PDR-07A5-2+C170	7.5	2	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PDR-10A6-2+C170	10.6	3	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PDR-017A-2+C170	16.7	5	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PDR-024A-2+C170	24.2	7.5	R2	Rx1-12	Rx12-12	RX3R-12
ACH580-PDR-031A-2+C170	30.8	10	R2	Rx1-12	Rx12-12	RX3R-12
ACH580-PDR-046A-2+C170	46.2	15	R3	Rx1-13	Rx12-12	RX3R-12
ACH580-PDR-059A-2+C170	59.4	20	R3	Rx1-13	Rx12-12	RX3R-12
ACH580-PDR-075A-2+C170	74.8	25	R4	Rx1-13	Rx12-13	RX3R-13
ACH580-PDR-088A-2+C170	88	30	R5	Rx1-14	Rx12-13	RX3R-13
ACH580-PDR-114A-2+C170	114	40	R5	Rx1-14	Rx12-13	RX3R-13
ACH580-PDR-143A-2+C170	143	50	R6	Rx1-14	Rx12-14	RX3R-14
ACH580-PDR-169A-2+C170	169	60	R7	Rx1-15	Rx12-15	RX3R-15
ACH580-PDR-211A-2+C170	211	75	R7	Rx1-15	Rx12-15	RX3R-15
ACH580-PDR-273A-2+C170	273	100	R8	Rx1-15	Rx12-15	RX3R-15
U_1 = 380 to 480 V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-PDR-02A1-4+C170	2.1	1	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PDR-03A0-4+C170	3	1.5	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PDR-03A5-4+C170	3.5	2	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PDR-04A8-4+C170	4.8	3	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PDR-07A6-4+C170	7.6	5	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PDR-012A-4+C170	12	7.5	R1	Rx1-12	Rx12-11	RX3R-11
ACH580-PDR-014A-4+C170	14	10	R2	Rx1-12	Rx12-12	RX3R-12
ACH580-PDR-023A-4+C170	23	15	R2	Rx1-12	Rx12-12	RX3R-12
ACH580-PDR-027A-4+C170	27	20	R3	Rx1-13	Rx12-12	RX3R-12
ACH580-PDR-034A-4+C170	34	25	R3	Rx1-13	Rx12-12	RX3R-12
ACH580-PDR-044A-4+C170	44	30	R3	Rx1-13	Rx12-12	RX3R-12
ACH580-PDR-052A-4+C170	52	40	R4	Rx1-13	Rx12-13	RX3R-13
ACH580-PDR-065A-4+C170	65	50	R4	Rx1-13	Rx12-13	RX3R-13
ACH580-PDR-077A-4+C170	77	60	R4	Rx1-13	Rx12-13	RX3R-13
ACH580-PDR-096A-4+C170	96	75	R5	Rx1-14	Rx12-13	RX3R-13
ACH580-PDR-124A-4+C170	124	100	R6	Rx1-14	Rx12-14	RX3R-14
ACH580-PDR-156A-4+C170	156	125	R7	Rx1-15	Rx12-15	RX3R-15
ACH580-PDR-180A-4+C170	180	150	R7	Rx1-15	Rx12-15	RX3R-15
ACH580-PDR-240A-4+C170	240	200	R8	Rx1-15	Rx12-15	RX3R-15

Ratings, types and voltages

ACH580-PCR, packaged drive with input harmonic filter with circuit breaker

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-PCR-04A6-2+E211	4.6	1	R1	Cx1-22	Cx12-22	CX12-23
ACH580-PCR-06A6-2+E211	6.6	1.5	R1	Cx1-22	Cx12-22	CX12-23
ACH580-PCR-07A5-2+E211	7.5	2	R1	Cx1-22	Cx12-22	CX12-23
ACH580-PCR-10A6-2+E211	10.6	3	R1	Cx1-22	Cx12-22	CX12-23
ACH580-PCR-017A-2+E211	16.7	5	R1	Cx1-22	Cx12-22	CX12-23
ACH580-PCR-024A-2+E211	24.2	7.5	R2	Cx1-22	Cx12-23	CX12-23
ACH580-PCR-031A-2+E211	30.8	10	R2	Cx1-22	Cx12-23	CX12-23
ACH580-PCR-046A-2+E211	46.2	15	R3	Cx1-23	Cx12-23	CX12-24
ACH580-PCR-059A-2+E211	59.4	20	R3	Cx1-23	Cx12-23	CX12-24
ACH580-PCR-075A-2+E211	74.8	25	R4	Cx1-23	Cx12-24	CX12-25
ACH580-PCR-088A-2+E211	88	30	R5	Cx1-24	Cx12-24	CX12-25
ACH580-PCR-114A-2+E211	114	40	R5	Cx1-24	Cx12-24	CX12-25
ACH580-PCR-143A-2+E211	143	50	R6	Cx1-24	Cx12-25	CX12-25
ACH580-PCR-169A-2+E211	169	60	R7	Cx1-24	Cx12-27	CX12-27
ACH580-PCR-211A-2+E211	211	75	R7	Cx1-27	Cx12-27	CX12-27
ACH580-PCR-273A-2+E211	273	100	R8	Cx1-27	Cx12-27	CX12-29
U_1 = 380 to 480 V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-PCR-02A1-4+E211	2.1	1	R1	Cx1-22	Cx12-22	CX3R-22
ACH580-PCR-03A0-4+E211	3	1.5	R1	Cx1-22	Cx12-22	CX3R-22
ACH580-PCR-03A5-4+E211	3.5	2	R1	Cx1-22	Cx12-22	CX3R-22
ACH580-PCR-04A8-4+E211	4.8	3	R1	Cx1-22	Cx12-22	CX3R-22
ACH580-PCR-07A6-4+E211	7.6	5	R1	Cx1-22	Cx12-22	CX3R-22
ACH580-PCR-012A-4+E211	12	7.5	R1	Cx1-22	Cx12-22	CX3R-22
ACH580-PCR-014A-4+E211	14	10	R2	Cx1-22	Cx12-23	CX3R-23
ACH580-PCR-023A-4+E211	23	15	R2	Cx1-22	Cx12-23	CX3R-23
ACH580-PCR-027A-4+E211	27	20	R3	Cx1-23	Cx12-23	CX3R-23
ACH580-PCR-034A-4+E211	34	25	R3	Cx1-23	Cx12-23	CX3R-23
ACH580-PCR-044A-4+E211	44	30	R3	Cx1-23	Cx12-23	CX3R-23
ACH580-PCR-052A-4+E211	52	40	R4	Cx1-23	Cx12-24	CX3R-24
ACH580-PCR-065A-4+E211	65	50	R4	Cx1-23	Cx12-24	CX3R-24
ACH580-PCR-077A-4+E211	77	60	R4	Cx1-23	Cx12-24	CX3R-24
ACH580-PCR-096A-4+E211	96	75	R5	Cx1-24	Cx12-24	CX3R-24
ACH580-PCR-124A-4+E211	124	100	R6	Cx1-24	Cx12-24	CX3R-24
ACH580-PCR-156A-4+E211	156	125	R7	Cx1-25	Cx12-25	CX3R-25
ACH580-PCR-180A-4+E211	180	150	R7	Cx1-25	Cx12-25	CX3R-27
ACH580-PCR-240A-4+E211	240	200	R8	Cx1-27	Cx12-27	CX3R-27
ACH580-PCR-302A-4+E211	302	250	R9	CX1-30	CX12-30	CX3R-30
ACH580-PCR-361A-4+E211	361	300	R9	CX1-30	CX12-30	CX3R-30
ACH580-PCR-414A-4+E211	414	350	R9	CX1-30	CX12-30	CX3R-30

Ratings, types and voltages

ACH580-PDR, packaged drive with input harmonic filter with non-fused disconnect switch

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-PDR-04A6-2+E211	4.6	1	R1	Cx1-22	Cx12-22	CX3R-23
ACH580-PDR-06A6-2+E211	6.6	1.5	R1	Cx1-22	Cx12-22	CX3R-23
ACH580-PDR-07A5-2+E211	7.5	2	R1	Cx1-22	Cx12-22	CX3R-23
ACH580-PDR-10A6-2+E211	10.6	3	R1	Cx1-22	Cx12-22	CX3R-23
ACH580-PDR-017A-2+E211	16.7	5	R1	Cx1-22	Cx12-22	CX3R-23
ACH580-PDR-024A-2+E211	24.2	7.5	R2	Cx1-22	Cx12-23	CX3R-23
ACH580-PDR-031A-2+E211	30.8	10	R2	Cx1-22	Cx12-23	CX3R-23
ACH580-PDR-046A-2+E211	46.2	15	R3	Cx1-23	Cx12-23	CX3R-24
ACH580-PDR-059A-2+E211	59.4	20	R3	Cx1-23	Cx12-23	CX3R-24
ACH580-PDR-075A-2+E211	74.8	25	R4	Cx1-23	Cx12-24	CX3R-24
ACH580-PDR-088A-2+E211	88	30	R5	Cx1-24	Cx12-24	CX3R-24
ACH580-PDR-114A-2+E211	114	40	R5	Cx1-24	Cx12-24	CX3R-25
ACH580-PDR-143A-2+E211	143	50	R6	Cx1-24	Cx12-25	CX3R-25
ACH580-PDR-169A-2+E211	169	60	R7	Cx1-24	Cx12-27	CX3R-27
ACH580-PDR-211A-2+E211	211	75	R7	Cx1-27	Cx12-27	CX3R-27
ACH580-PDR-273A-2+E211	273	100	R8	Cx1-27	Cx12-27	CX3R-29
U_1 = 380 to 480 V. Power ratings are valid at nominal output voltage U_N = 460 V 60 Hz						
ACH580-PDR-02A1-4+E211	2.1	1	R1	Cx1-22	Cx12-22	CX3R-22
ACH580-PDR-03A0-4+E211	3	1.5	R1	Cx1-22	Cx12-22	CX3R-22
ACH580-PDR-03A5-4+E211	3.5	2	R1	Cx1-22	Cx12-22	CX3R-22
ACH580-PDR-04A8-4+E211	4.8	3	R1	Cx1-22	Cx12-22	CX3R-22
ACH580-PDR-07A6-4+E211	7.6	5	R1	Cx1-22	Cx12-22	CX3R-22
ACH580-PDR-012A-4+E211	12	7.5	R1	Cx1-22	Cx12-22	CX3R-22
ACH580-PDR-014A-4+E211	14	10	R2	Cx1-22	Cx12-23	CX3R-23
ACH580-PDR-023A-4+E211	23	15	R2	Cx1-22	Cx12-23	CX3R-23
ACH580-PDR-027A-4+E211	27	20	R3	Cx1-23	Cx12-23	CX3R-23
ACH580-PDR-034A-4+E211	34	25	R3	Cx1-23	Cx12-23	CX3R-23
ACH580-PDR-044A-4+E211	44	30	R3	Cx1-23	Cx12-23	CX3R-23
ACH580-PDR-052A-4+E211	52	40	R4	Cx1-23	Cx12-24	CX3R-24
ACH580-PDR-065A-4+E211	65	50	R4	Cx1-23	Cx12-24	CX3R-24
ACH580-PDR-077A-4+E211	77	60	R4	Cx1-23	Cx12-24	CX3R-24
ACH580-PDR-096A-4+E211	96	75	R5	Cx1-24	Cx12-24	CX3R-24
ACH580-PDR-124A-4+E211	124	100	R6	Cx1-24	Cx12-24	CX3R-24
ACH580-PDR-156A-4+E211	156	125	R7	Cx1-25	Cx12-25	CX3R-25
ACH580-PDR-180A-4+E211	180	150	R7	Cx1-25	Cx12-25	CX3R-27
ACH580-PDR-240A-4+E211	240	200	R8	Cx1-27	Cx12-27	CX3R-27
ACH580-PDR-302A-4+E211	302	250	R9	CX1-30	CX12-30	CX3R-30
ACH580-PDR-361A-4+E211	361	300	R9	CX1-30	CX12-30	CX3R-30
ACH580-PDR-414A-4+E211	414	350	R9	CX1-30	CX12-30	CX3R-30

Ratings, types and voltages

ACH580-PCR, packaged drive with special enclosure with circuit breaker

Type code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 4	Dim Ref UL (NEMA) Type 4x	Dim Ref UL (NEMA) Type 3RXSS
	Current	Power				
	A	HP				
U_1 = 200 to 240V. Power ratings are valid at nominal output voltage U_N = 208/230 V 60 Hz						
ACH580-PCR-04A6-2	4.6	1	R1	CX1-22	CX12-22	CX3R-22
ACH580-PCR-06A6-2	6.6	1.5	R1	CX1-22	CX12-22	CX3R-22
ACH580-PCR-07A5-2	7.5	2	R1	CX1-22	CX12-22	CX3R-22
ACH580-PCR-10A6-2	10.6	3	R1	CX1-22	CX12-22	CX3R-22
ACH580-PCR-017A-2	16.7	5	R1	CX1-22	CX12-22	CX3R-22
ACH580-PCR-024A-2	24.2	7.5	R2	CX1-22	CX12-23	CX3R-23
ACH580-PCR-031A-2	30.8	10	R2	CX1-22	CX12-23	CX3R-23
ACH580-PCR-046A-2	46.2	15	R3	CX1-23	CX12-23	CX3R-23
ACH580-PCR-059A-2	59.4	20	R3	CX1-23	CX12-23	CX3R-23
ACH580-PCR-075A-2	74.8	25	R4	CX1-23	CX12-24	CX3R-24
ACH580-PCR-088A-2	88	30	R5	CX1-24	CX12-24	CX3R-24
ACH580-PCR-114A-2	114	40	R5	CX1-24	CX12-24	CX3R-24
ACH580-PCR-143A-2	143	50	R6	CX1-24	CX12-25	CX3R-25
ACH580-PCR-169A-2	169	60	R7	CX1-24	CX12-27	CX3R-27
ACH580-PCR-211A-2	211	75	R7	CX1-27	CX12-27	CX3R-27
ACH580-PCR-273A-2	273	100	R8	CX1-27	CX12-27	CX3R-27
U_1 = 440 to 480V. Power ratings are valid at nominal output voltage U_N = 460 V 60 Hz						
ACH580-PCR-02A1-4	2.1	1	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-PCR-03A0-4	3	1.5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-PCR-03A5-4	3.5	2	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-PCR-04A8-4	4.8	3	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-PCR-07A6-4	7.6	5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-PCR-012A-4	12	7.5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-PCR-014A-4	14	10	R2	CX4-10	CX4X-10	CX3RX-11
ACH580-PCR-023A-4	23	15	R2	CX4-11	CX4X-11	CX3RX-11
ACH580-PCR-027A-4	27	20	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-PCR-034A-4	34	25	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-PCR-044A-4	44	30	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-PCR-052A-4	52	40	R4	CX4-13	CX4X-13	CX3RX-13
ACH580-PCR-065A-4	65	50	R4	CX4-13	CX4X-13	CX3RX-13
ACH580-PCR-077A-4	77	60	R4	CX4-14	CX4X-14	CX3RX-13
ACH580-PCR-096A-4	96	75	R5	CX4-14	CX4X-14	CX3RX-13
ACH580-PCR-124A-4	124	100	R6	CX4-16	CX4X-16	CX3RX-14
ACH580-PCR-156A-4	156	125	R7	CX4-17	CX4X-17	CX3RX-14
ACH580-PCR-180A-4	180	150	R7	CX4-19	CX4X-19	CX3RX-14
ACH580-PCR-240A-4	240	200	R8	CX4-20	CX4X-20	CX3RX-15

Ratings, types and voltages

ACH580-PDR, packaged drive with special enclosure with non-fused disconnect switch

Type code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 4	Dim Ref UL (NEMA) Type 4x	Dim Ref UL (NEMA) Type 3RXSS
	Current	Power				
	A	HP				
U_1 = 200 to 240V. Power ratings are valid at nominal output voltage U_N = 208/230 V 60 Hz						
ACH580-PDR-04A6-2	4.6	1	R1	CX1-22	CX12-22	CX3R-22
ACH580-PDR-06A6-2	6.6	1.5	R1	CX1-22	CX12-22	CX3R-22
ACH580-PDR-07A5-2	7.5	2	R1	CX1-22	CX12-22	CX3R-22
ACH580-PDR-10A6-2	10.6	3	R1	CX1-22	CX12-22	CX3R-22
ACH580-PDR-017A-2	16.7	5	R1	CX1-22	CX12-22	CX3R-22
ACH580-PDR-024A-2	24.2	7.5	R2	CX1-22	CX12-23	CX3R-23
ACH580-PDR-031A-2	30.8	10	R2	CX1-22	CX12-23	CX3R-23
ACH580-PDR-046A-2	46.2	15	R3	CX1-23	CX12-23	CX3R-23
ACH580-PDR-059A-2	59.4	20	R3	CX1-23	CX12-23	CX3R-23
ACH580-PDR-075A-2	74.8	25	R4	CX1-23	CX12-24	CX3R-24
ACH580-PDR-088A-2	88	30	R5	CX1-24	CX12-24	CX3R-24
ACH580-PDR-114A-2	114	40	R5	CX1-24	CX12-24	CX3R-24
ACH580-PDR-143A-2	143	50	R6	CX1-24	CX12-25	CX3R-25
ACH580-PDR-169A-2	169	60	R7	CX1-24	CX12-27	CX3R-27
ACH580-PDR-211A-2	211	75	R7	CX1-27	CX12-27	CX3R-27
ACH580-PDR-273A-2	273	100	R8	CX1-27	CX12-27	CX3R-27
U_1 = 440 to 480V. Power ratings are valid at nominal output voltage U_N = 460 V 60 Hz						
ACH580-PDR-02A1-4	2.1	1	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-PDR-03A0-4	3	1.5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-PDR-03A5-4	3.5	2	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-PDR-04A8-4	4.8	3	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-PDR-07A6-4	7.6	5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-PDR-012A-4	12	7.5	R1	CX4-10	CX4X-10	CX3RX-11
ACH580-PDR-014A-4	14	10	R2	CX4-10	CX4X-10	CX3RX-11
ACH580-PDR-023A-4	23	15	R2	CX4-11	CX4X-11	CX3RX-11
ACH580-PDR-027A-4	27	20	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-PDR-034A-4	34	25	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-PDR-044A-4	44	30	R3	CX4-11	CX4X-11	CX3RX-12
ACH580-PDR-052A-4	52	40	R4	CX4-13	CX4X-13	CX3RX-13
ACH580-PDR-065A-4	65	50	R4	CX4-13	CX4X-13	CX3RX-13
ACH580-PDR-077A-4	77	60	R4	CX4-14	CX4X-14	CX3RX-13
ACH580-PDR-096A-4	96	75	R5	CX4-14	CX4X-14	CX3RX-13
ACH580-PDR-124A-4	124	100	R6	CX4-16	CX4X-16	CX3RX-14
ACH580-PDR-156A-4	156	125	R7	CX4-17	CX4X-17	CX3RX-14
ACH580-PDR-180A-4	180	150	R7	CX4-19	CX4X-19	CX3RX-14
ACH580-PDR-240A-4	240	200	R8	CX4-20	CX4X-20	CX3RX-15

Ratings, types and voltages

ACH580-PCR, packaged drive with manual motor protectors with circuit breaker

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-PCR-04A6-2+xG405+M6xx	4.6	1	R1	Cx1-21	Cx12-21	CX3R-21
ACH580-PCR-06A6-2+xG405+M6xx	6.6	1.5	R1	Cx1-21	Cx12-21	CX3R-21
ACH580-PCR-07A5-2+xG405+M6xx	7.5	2	R1	Cx1-21	Cx12-21	CX3R-21
ACH580-PCR-10A6-2+xG405+M6xx	10.6	3	R1	Cx1-21	Cx12-21	CX3R-21
ACH580-PCR-017A-2+xG405+M6xx	16.7	5	R1	Cx1-21	Cx12-21	CX3R-21
ACH580-PCR-024A-2+xG405+M6xx	24.2	7.5	R2	Cx1-21	Cx12-21	CX3R-21
ACH580-PCR-031A-2+xG405+M6xx	30.8	10	R2	Cx1-21	Cx12-22	CX3R-21
ACH580-PCR-046A-2+xG405+M6xx	46.2	15	R3	Cx1-22	Cx12-22	CX3R-22
ACH580-PCR-059A-2+xG405+M6xx	59.4	20	R3	Cx1-22	Cx12-22	CX3R-22
ACH580-PCR-075A-2+xG405+M6xx	74.8	25	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-PCR-088A-2+xG405+M6xx	88	30	R5	Cx1-23	Cx12-24	CX3R-23
ACH580-PCR-114A-2+xG405+M6xx	114	40	R5	Cx1-23	Cx12-24	CX3R-23
ACH580-PCR-143A-2+xG405+M6xx	143	50	R6	Cx1-23	Cx12-24	CX3R-24
ACH580-PCR-169A-2+xG405+M6xx	169	60	R7	Cx1-23	Cx12-24	CX3R-24
ACH580-PCR-211A-2+xG405+M6xx	211	75	R7	Cx1-24	Cx12-24	CX3R-24
ACH580-PCR-273A-2+xG405+M6xx	273	100	R8	Cx1-24	Cx12-24	CX3R-24
U_1 = 380 to 480 V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-PCR-02A1-4+xG405+M6xx	2.1	1	R1	Cx1-21	Cx12-21	CX3R-22
ACH580-PCR-03A0-4+xG405+M6xx	3	1.5	R1	Cx1-21	Cx12-21	CX3R-22
ACH580-PCR-03A5-4+xG405+M6xx	3.5	2	R1	Cx1-21	Cx12-21	CX3R-22
ACH580-PCR-04A8-4+xG405+M6xx	4.8	3	R1	Cx1-21	Cx12-21	CX3R-22
ACH580-PCR-07A6-4+xG405+M6xx	7.6	5	R1	Cx1-21	Cx12-21	CX3R-22
ACH580-PCR-012A-4+xG405+M6xx	12	7.5	R1	Cx1-21	Cx12-21	CX3R-22
ACH580-PCR-014A-4+xG405+M6xx	14	10	R2	Cx1-21	Cx12-21	CX3R-22
ACH580-PCR-023A-4+xG405+M6xx	23	15	R2	Cx1-21	Cx12-21	CX3R-22
ACH580-PCR-027A-4+xG405+M6xx	27	20	R3	Cx1-22	Cx12-22	CX3R-23
ACH580-PCR-034A-4+xG405+M6xx	34	25	R3	Cx1-22	Cx12-22	CX3R-23
ACH580-PCR-044A-4+xG405+M6xx	44	30	R3	Cx1-22	Cx12-22	CX3R-23
ACH580-PCR-052A-4+xG405+M6xx	52	40	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-PCR-065A-4+xG405+M6xx	65	50	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-PCR-077A-4+xG405+M6xx	77	60	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-PCR-096A-4+xG405+M6xx	96	75	R5	Cx1-23	Cx12-24	CX3R-24
ACH580-PCR-124A-4+xG405+M6xx	124	100	R6	Cx1-23	Cx12-24	CX3R-24
ACH580-PCR-156A-4+xG405+M6xx	156	125	R7	Cx1-23	Cx12-24	CX3R-24
ACH580-PCR-180A-4+xG405+M6xx	180	150	R7	Cx1-23	Cx12-24	CX3R-24
ACH580-PCR-240A-4+xG405+M6xx	240	200	R8	Cx1-24	Cx12-24	CX3R-25

Enclosure dimensions depend on the number of manual motor protectors included in the enclosure.
Consult factory submittal drawings to confirm enclosure size.

Ratings, types and voltages

ACH580-PDR, packaged drive with manual motor protectors with non-fused disconnect switch

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 200 to 240 V. Power ratings are valid at output voltage U_N = 208/230 V 60 Hz						
ACH580-PDR-04A6-2+xG405+M6xx	4.6	1	R1	Cx1-21	Cx12-21	CX3R-21
ACH580-PDR-06A6-2+xG405+M6xx	6.6	1.5	R1	Cx1-21	Cx12-21	CX3R-21
ACH580-PDR-07A5-2+xG405+M6xx	7.5	2	R1	Cx1-21	Cx12-21	CX3R-21
ACH580-PDR-10A6-2+xG405+M6xx	10.6	3	R1	Cx1-21	Cx12-21	CX3R-21
ACH580-PDR-017A-2+xG405+M6xx	16.7	5	R1	Cx1-21	Cx12-21	CX3R-21
ACH580-PDR-024A-2+xG405+M6xx	24.2	7.5	R2	Cx1-21	Cx12-21	CX3R-21
ACH580-PDR-031A-2+xG405+M6xx	30.8	10	R2	Cx1-21	Cx12-22	CX3R-21
ACH580-PDR-046A-2+xG405+M6xx	46.2	15	R3	Cx1-22	Cx12-22	CX3R-22
ACH580-PDR-059A-2+xG405+M6xx	59.4	20	R3	Cx1-22	Cx12-22	CX3R-22
ACH580-PDR-075A-2+xG405+M6xx	74.8	25	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-PDR-088A-2+xG405+M6xx	88	30	R5	Cx1-23	Cx12-24	CX3R-23
ACH580-PDR-114A-2+xG405+M6xx	114	40	R5	Cx1-23	Cx12-24	CX3R-23
ACH580-PDR-143A-2+xG405+M6xx	143	50	R6	Cx1-23	Cx12-24	CX3R-24
ACH580-PDR-169A-2+xG405+M6xx	169	60	R7	Cx1-23	Cx12-24	CX3R-24
ACH580-PDR-211A-2+xG405+M6xx	211	75	R7	Cx1-24	Cx12-24	CX3R-24
ACH580-PDR-273A-2+xG405+M6xx	273	100	R8	Cx1-24	Cx12-24	CX3R-24
U_1 = 380 to 480 V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-PDR-02A1-4+xG405+M6xx	2.1	1	R1	Cx1-21	Cx12-21	CX3R-22
ACH580-PDR-03A0-4+xG405+M6xx	3	1.5	R1	Cx1-21	Cx12-21	CX3R-22
ACH580-PDR-03A5-4+xG405+M6xx	3.5	2	R1	Cx1-21	Cx12-21	CX3R-22
ACH580-PDR-04A8-4+xG405+M6xx	4.8	3	R1	Cx1-21	Cx12-21	CX3R-22
ACH580-PDR-07A6-4+xG405+M6xx	7.6	5	R1	Cx1-21	Cx12-21	CX3R-22
ACH580-PDR-012A-4+xG405+M6xx	12	7.5	R1	Cx1-21	Cx12-21	CX3R-22
ACH580-PDR-014A-4+xG405+M6xx	14	10	R2	Cx1-21	Cx12-21	CX3R-22
ACH580-PDR-023A-4+xG405+M6xx	23	15	R2	Cx1-21	Cx12-21	CX3R-22
ACH580-PDR-027A-4+xG405+M6xx	27	20	R3	Cx1-22	Cx12-22	CX3R-23
ACH580-PDR-034A-4+xG405+M6xx	34	25	R3	Cx1-22	Cx12-22	CX3R-23
ACH580-PDR-044A-4+xG405+M6xx	44	30	R3	Cx1-22	Cx12-22	CX3R-23
ACH580-PDR-052A-4+xG405+M6xx	52	40	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-PDR-065A-4+xG405+M6xx	65	50	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-PDR-077A-4+xG405+M6xx	77	60	R4	Cx1-22	Cx12-23	CX3R-23
ACH580-PDR-096A-4+xG405+M6xx	96	75	R5	Cx1-23	Cx12-24	CX3R-24
ACH580-PDR-124A-4+xG405+M6xx	124	100	R6	Cx1-23	Cx12-24	CX3R-24
ACH580-PDR-156A-4+xG405+M6xx	156	125	R7	Cx1-23	Cx12-24	CX3R-24
ACH580-PDR-180A-4+xG405+M6xx	180	150	R7	Cx1-23	Cx12-24	CX3R-24
ACH580-PDR-240A-4+xG405+M6xx	240	200	R8	Cx1-24	Cx12-24	CX3R-25

Enclosure dimensions depend on the number of manual motor protectors included in the enclosure.
Consult factory submittal drawings to confirm enclosure size.

Ratings, types and voltages
ACH580-31, ultra-low harmonic drives

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12 / +B056
	Current	Power			
	A	HP			
U_1 = 380 to 480 V. Power ratings are valid at output voltage 460 V 60 Hz					
ACH580-31-07A6-4	7.6	5	R3	31-1-R3	31-12-R3
ACH580-31-012A-4	12	7.5	R3	31-1-R3	31-12-R3
ACH580-31-014A-4	14	10	R3	31-1-R3	31-12-R3
ACH580-31-023A-4	23	15	R3	31-1-R3	31-12-R3
ACH580-31-027A-4	27	20	R6	31-1-R6	31-12-R6
ACH580-31-034A-4	34	25	R6	31-1-R6	31-12-R6
ACH580-31-044A-4	44	30	R6	31-1-R6	31-12-R6
ACH580-31-052A-4	52	40	R6	31-1-R6	31-12-R6
ACH580-31-065A-4	65	50	R6	31-1-R6	Contact factory
ACH580-31-077A-4	77	60	R6	31-1-R6	
ACH580-31-096A-4	96	75	R8	31-1-R8	31-12-R8
ACH580-31-124A-4	124	100	R8	31-1-R8	31-12-R8
ACH580-31-156A-4	156	125	R8	31-1-R8	31-12-R8
ACH580-31-180A-4	180	150	R8	31-1-R8	31-12-R8

Ratings, types and voltages

ACH580-3BCR, enclosed ultra-low harmonic drive with circuit breaker

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 440 to 480V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-3BCR-07A6-4	7.6	5	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BCR-012A-4	12	7.5	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BCR-014A-4	14	10	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BCR-023A-4	23	15	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BCR-027A-4	27	20	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BCR-034A-4	34	25	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BCR-044A-4	44	30	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BCR-052A-4	52	40	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BCR-065A-4	65	50	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BCR-077A-4	77	60	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BCR-096A-4	96	75	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BCR-124A-4	124	100	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BCR-156A-4	156	125	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BCR-180A-4	180	150	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BCR-240A-4	240	200	R11	Contact Factory		
ACH580-3BCR-302A-4	302	250	R11			
ACH580-3BCR-361A-4	361	300	R11			
ACH580-3BCR-414A-4	414	350	R11			
ACH580-3BCR-477A-4	477	400	R11			

Ratings, types and voltages

ACH580-3BDR, enclosed ultra-low harmonic drive with non-fused disconnect

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 440 to 480V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-3BDR-07A6-4	7.6	5	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BDR-012A-4	12	7.5	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BDR-014A-4	14	10	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BDR-023A-4	23	15	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BDR-027A-4	27	20	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BDR-034A-4	34	25	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BDR-044A-4	44	30	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BDR-052A-4	52	40	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BDR-065A-4	65	50	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BDR-077A-4	77	60	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BDR-096A-4	96	75	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BDR-124A-4	124	100	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BDR-156A-4	156	125	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BDR-180A-4	180	150	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BDR-240A-4	240	200	R11	Contact Factory		
ACH580-3BDR-302A-4	302	250	R11			
ACH580-3BDR-361A-4	361	300	R11			
ACH580-3BDR-414A-4	414	350	R11			
ACH580-3BDR-477A-4	477	400	R11			

Ratings, types and voltages

ACH580-3BCR, enclosed with soft start ultra-low harmonic drive with circuit breaker

Type code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 440 to 480V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-3BCR-07A6-4+G390	7.6	5	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BCR-012A-4+G390	12	7.5	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BCR-014A-4+G390	14	10	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BCR-023A-4+G390	23	15	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BCR-027A-4+G390	27	20	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BCR-034A-4+G390	34	25	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BCR-044A-4+G390	44	30	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BCR-052A-4+G390	52	40	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BCR-065A-4+G390	65	50	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BCR-077A-4+G390	77	60	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BCR-096A-4+G390	96	75	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BCR-124A-4+G390	124	100	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BCR-156A-4+G390	156	125	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BCR-180A-4+G390	180	150	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BCR-240A-4+G390	240	200	R11	Contact Factory		
ACH580-3BCR-302A-4+G390	302	250	R11			
ACH580-3BCR-361A-4+G390	361	300	R11			
ACH580-3BCR-414A-4+G390	414	350	R11			
ACH580-3BCR-477A-4+G390	477	400	R11			

Ratings, types and voltages

ACH580-3BDR, enclosed with soft start ultra-low harmonic drive with non-fused disconnect

Type code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12	Dim Ref UL (NEMA) Type 3R
	Current	Power				
	A	HP				
U_1 = 440 to 480V. Power ratings are valid at output voltage U_N = 460 V 60 Hz						
ACH580-3BDR-07A6-4+G390	7.6	5	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BDR-012A-4+G390	12	7.5	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BDR-014A-4+G390	14	10	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BDR-023A-4+G390	23	15	R3	Bx1-31	Bx12-31	Bx3R-31
ACH580-3BDR-027A-4+G390	27	20	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BDR-034A-4+G390	34	25	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BDR-044A-4+G390	44	30	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BDR-052A-4+G390	52	40	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BDR-065A-4+G390	65	50	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BDR-077A-4+G390	77	60	R6	Bx1-32	Bx12-32	Bx3R-32
ACH580-3BDR-096A-4+G390	96	75	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BDR-124A-4+G390	124	100	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BDR-156A-4+G390	156	125	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BDR-180A-4+G390	180	150	R8	Bx1-33	Bx12-33	Bx3R-35
ACH580-3BCR-240A-4+G390	240	200	R11	Contact factory		
ACH580-3BCR-302A-4+G390	302	250	R11			
ACH580-3BCR-361A-4+G390	361	300	R11			
ACH580-3BCR-414A-4+G390	414	350	R11			
ACH580-3BCR-477A-4+G390	477	400	R11			

Ratings, types and voltages

ACH580-3PCR, packaged ultra-low harmonic drive with circuit breaker

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12
	Current	Power			
	A	HP			
U_1 = 440 to 480V. Power ratings are valid at output voltage U_N = 460 V 60 Hz					
ACH580-3PCR-07A6-4	7.6	5	R3	PxB1-31	PxB12-31
ACH580-3PCR-012A-4	12	7.5	R3	PxB1-31	PxB12-31
ACH580-3PCR-014A-4	14	10	R3	PxB1-31	PxB12-31
ACH580-3PCR-023A-4	23	15	R3	PxB1-31	PxB12-31
ACH580-3PCR-027A-4	27	20	R6	PxB1-32	PxB12-32
ACH580-3PCR-034A-4	34	25	R6	PxB1-32	PxB12-32
ACH580-3PCR-044A-4	44	30	R6	PxB1-32	PxB12-32
ACH580-3PCR-052A-4	52	40	R6	PxB1-32	PxB12-32
ACH580-3PCR-065A-4	65	50	R6	PxB1-32	PxB12-32
ACH580-3PCR-077A-4	77	60	R6	PxB1-32	PxB12-32
ACH580-3PCR-240A-4	240	200	R11	Contact Factory	
ACH580-3PCR-302A-4	302	250	R11		
ACH580-3PCR-361A-4	361	300	R11		
ACH580-3PCR-414A-4	414	350	R11		
ACH580-3PCR-477A-4	477	400	R11		

Ratings, types and voltages

ACH580-3PDR, packaged ultra-low harmonic drive with non-fused disconnect

Type Code	Output Ratings		Frame Size	Dim Ref UL (NEMA) Type 1	Dim Ref UL (NEMA) Type 12
	Current	Power			
	A	HP			
U_1 = 440 to 480V. Power ratings are valid at output voltage U_N = 460 V 60 Hz					
ACH580-3PDR-07A6-4	7.6	5	R3	PxB1-31	PxB12-31
ACH580-3PDR-012A-4	12	7.5	R3	PxB1-31	PxB12-31
ACH580-3PDR-014A-4	14	10	R3	PxB1-31	PxB12-31
ACH580-3PDR-023A-4	23	15	R3	PxB1-31	PxB12-31
ACH580-3PDR-027A-4	27	20	R6	PxB1-32	PxB12-32
ACH580-3PDR-034A-4	34	25	R6	PxB1-32	PxB12-32
ACH580-3PDR-044A-4	44	30	R6	PxB1-32	PxB12-32
ACH580-3PDR-052A-4	52	40	R6	PxB1-32	PxB12-32
ACH580-3PDR-065A-4	65	50	R6	PxB1-32	PxB12-32
ACH580-3PDR-077A-4	77	60	R6	PxB1-32	PxB12-32
ACH580-3PDR-240A-4	240	200	R11	Contact Factory	
ACH580-3PDR-302A-4	302	250	R11		
ACH580-3PDR-361A-4	361	300	R11		
ACH580-3PDR-414A-4	414	350	R11		
ACH580-3PDR-477A-4	477	400	R11		

Option compatibility
Descriptions

Constructions												Option	Option Code	Description
01	VxR	VDR	BCR	BDR	PCR	PDR	31	3BCR	3BDR	3PCR	3PDR			
●	●	●	●	●	●	●	●	●	●	●	●	UL (NEMA) Type 1	-	Indoor use primarily to provide a degree of protection against limited amounts of falling dirt.
●			●	●	●	●	●	●	●	●	●	UL (NEMA) Type 12	+B056	Indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping non-corrosive liquids. Does not protect against contamination from salt-laden air
			●	●	●	●		●	●	●	●	UL (NEMA) Type 3R	+B058	Either indoor or outdoor use to provide a degree of protection against falling dirt, rain, sleet, and snow; and that will be undamaged by the external formation of ice on the enclosure.
			●	●	●	●		✔	✔	✔	✔	UL (NEMA) Type 3R Stainless Steel	+B058+C165	Either indoor or outdoor use to provide a degree of protection against falling dirt, rain, sleet, and snow; and that will be undamaged by the external formation of ice on the enclosure. Enclosure is made of stainless steel grade 304. Internal heating strips and cooling fans regulate the internal temperature of the enclosure.
			●	●	●	●		✔	✔	✔	✔	UL (NEMA) Type 4	+B057	Either indoor or outdoor use to provide a degree of protection against falling dirt, windblown dust, rain, sleet, snow, splashing water, and hose-directed water; and that will be undamaged by the external formation of ice on the enclosure. Enclosure is made of powder coated galvanized steel. An air conditioner is mounted on the side of the enclosure for cooling of the VFD.
			●	●	●	●		✔	✔	✔	✔	UL (NEMA) Type 4X	+B063+C165	Either indoor or outdoor use to provide a degree of protection against falling dirt, windblown dust, rain, sleet, snow, splashing water, and hose-directed water; and that will be undamaged by the external formation of ice on the enclosure. Enclosure is made of stainless steel grade 304. A stainless steel air conditioner made of 304 grade steel is mounted on the side of the enclosure for cooling of the VFD.
	●	●	●	●				●	●			Service Switch	+F267	Provides a means to manually disconnect power to the drive.
			●	●	●	●						Line Reactor	+E213	A line reactor provides additional line side impedance for power conditioning. In some applications the line reactor will prevent nuisance drive trips and slightly reduce overall harmonic current.
			●	●	●	●						Passive Filter	+E211	A passive harmonic filter (inductive-capacitive) style is installed and wired in series with the drive. For power factor control, the contactor drops out the tuning reactor and capacitors during light loading. This filter is designed to limit current distortion to less than 5%.
			●	●				●	●			Softstart Bypass	+G390	The Softstarter is installed in the bypass circuit ahead of the Bypass Contactor power contacts. Softstarter operation is initiated by means of a control circuit interlock contact on the Bypass Contactor. Softstarter UP-TO-SPEED and FAULT signals (contact closures) are available at the Softstarter terminal block.
					●	●				✔	✔	Redundant	+C170	The redundant drive control option has two drives installed into a single enclosure to act as a backup for critical applications. The control scheme automatically switches from selected Lead Drive to secondary drive upon a fault on the selected Lead Drive. Each drive equipped with Drive Fuses and electrically interlocked drive output contactors.
			●	●	●	●		✔	✔	✔	✔	MMPs	+xG405+M6xx	Control multiple motors with a single drive. Size the drive based on the combined power rating of all of the loads that will be controlled by the drive. ABB Manual Motor Protectors (MMPs) are sized based on each individual load are installed on the output of the VFD.

Adding these options may change the dimensions of the enclosure.
Contact ABB for available configuration requirements.

● Available option

✔ Contact factory for additional information.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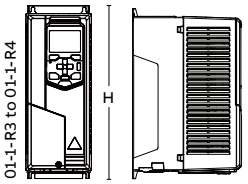
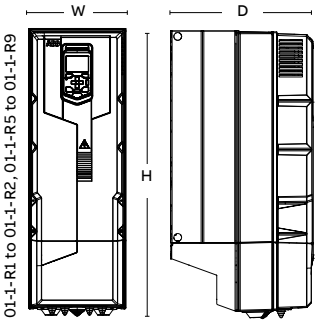
INGSGATE MARKET

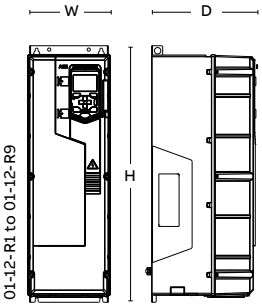
Dimensions
ACH580-01



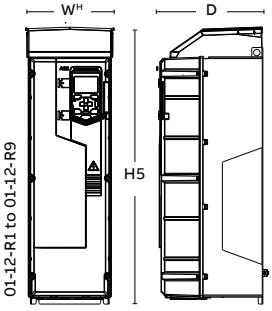
ACH580-01 with integrated conduit box (R3-R4)



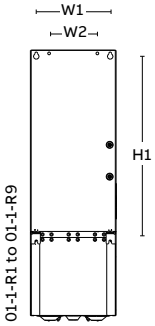
ACH580-01 with removable conduit box (R1-R2, R5-R9)



ACH580-01 without hood with integrated conduit box (R1-R9)



ACH580-01 with hood with integrated conduit box (R1-R9)

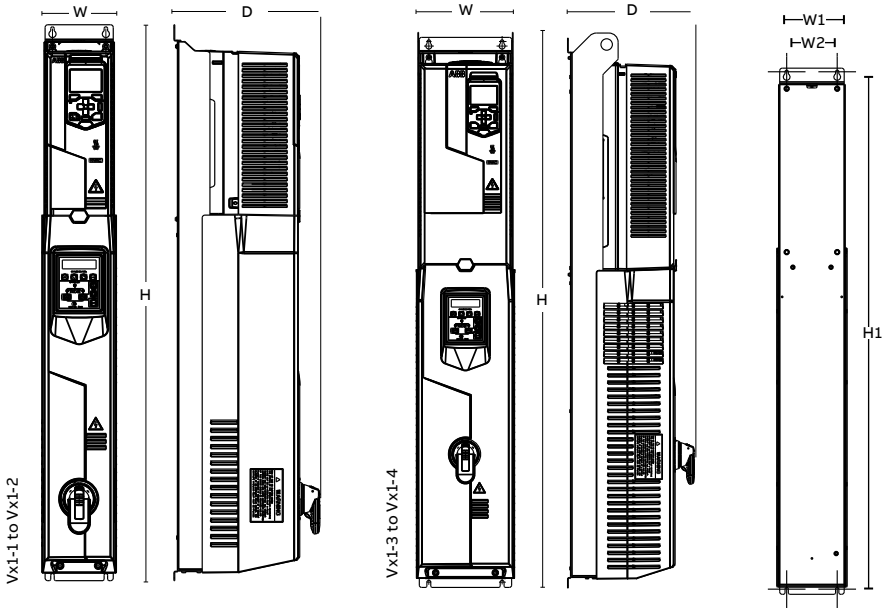


Dim Ref	Height (H)		Height (H5)		Width (W)		Width (W^H)		Depth (D)		Weight		Mounting Dimensions					
													Height (H1)		Width (W1)		Width (W2)	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg	in	mm	in	mm	in	mm
ACH580-01, wall-mounted UL (NEMA) Type 1																		
01-1-R1	14.69	373	-	-	4.92	125	-	-	8.78	223	10.1	4.6	12.48	317	3.86	98	-	-
01-1-R2	18.62	473	-	-	4.92	125	-	-	9.02	229	14.6	6.6	16.42	417	3.86	98	-	-
01-1-R3	19.29	490	-	-	7.99	203	-	-	9.02	229	26.0	11.8	18.62	473	6.30	160	-	-
01-1-R4	25.04	636	-	-	7.99	203	-	-	10.12	257	41.9	19.0	24.37	619	6.30	160	3.86	98
01-1-R5	28.82	732	-	-	7.99	203	-	-	11.61	295	62.4	28.3	22.87	581	6.30	160	3.86	98
01-1-R6	28.62	727	-	-	9.92	252	-	-	14.53	369	93.5	42.4	20.91	531	8.37	213	6.30	160
01-1-R7	34.65	880	-	-	11.18	284	-	-	14.57	370	119.1	54.0	22.95	583	9.65	245	6.30	160
01-1-R8	37.99	965	-	-	11.81	300	-	-	15.47	393	152.2	69.0	25.91	658	10.33	263	8.43	214
01-1-R9	37.60	955	-	-	14.96	380	-	-	16.46	418	213.9	97.0	25.91	658	13.58	345	7.87	200
ACH580-01, wall-mounted UL (NEMA) Type 12																		
01-12-R1	15.87	403	17.78	452	5.04	128	5.09	129	9.17	233	10.6	4.8	12.48	317	3.86	98	-	-
01-12-R2	19.80	503	21.49	546	5.04	128	5.10	130	9.41	239	15.0	6.8	16.42	417	3.86	98	-	-
01-12-R3	19.29	490	20.93	532	8.11	206	8.16	207	9.33	237	28.7	13.0	18.62	473	6.30	160	-	-
01-12-R4	25.04	636	27.03	686	7.99	203	8.59	218	10.43	265	44.1	20.0	24.37	619	6.30	160	3.86	98
01-12-R5	28.82	732	32.01	813	7.99	203	8.58	218	12.60	320	63.9	29.0	22.87	581	6.30	160	3.86	98
01-12-R6	28.62	727	34.81	884	9.92	252	11.46	291	14.96	380	94.8	43.0	20.91	531	8.37	213	6.30	160
01-12-R7	34.65	880	40.86	1038	11.18	284	13.00	330	15.00	381	123.5	56.0	22.95	583	9.65	245	6.30	160
01-12-R8	37.99	965	44.23	1123	11.81	300	13.80	351	17.80	452	169.8	77.0	25.91	658	10.33	263	8.43	214
01-12-R9	37.60	955	46.75	1188	14.96	380	16.95	431	18.78	477	227.1	103.0	25.91	658	13.58	345	7.87	200

Standard configuration dimensions for reference only.

Dimensions

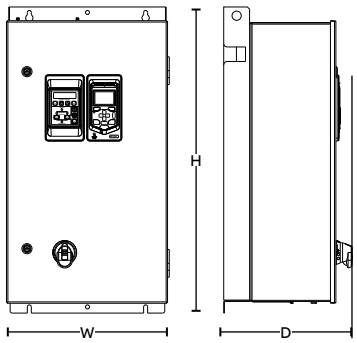
ACH580-VCR and ACH580-VDR

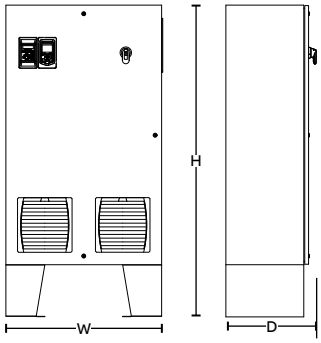


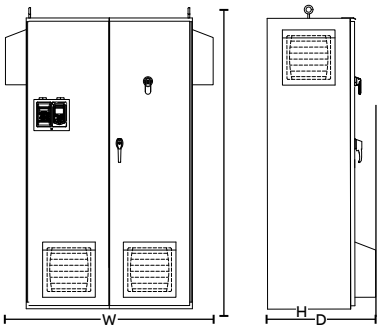
Dim Ref	Height (H)		Width (W)		Depth (D)		Weight		Mounting Dimensions					
									Height (H1)		Width (W1)		Width (W2)	
	in	mm	in	mm	in	mm	lb	kg	in	mm	in	mm	in	mm
ACH580-VCR and ACH580-VDR, vertical E-Clipse bypass drives UL (NEMA) Type 1														
Vx1-1	40.18	1021	5.39	137	10.55	268	30.0	13.6	39.51	1004	4.93	125	3.86	98
Vx1-2	44.10	1120	5.39	137	10.77	274	50.7	23.0	43.43	1103	4.93	125	3.86	98
Vx1-3	47.70	1212	8.44	214	10.90	277	59.5	27.0	46.47	1180	8.19	208	6.30	160
Vx1-4	56.82	1443	8.44	214	12.00	305	86.0	39.0	55.70	1415	8.19	208	6.30	160
Vx1-5	56.82	1443	8.35	212	13.26	337	117.0	53.3	55.70	1415	8.19	208	6.3	180

Standard configuration dimensions for reference only.

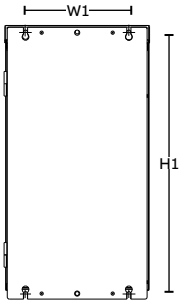
Dimensions
ACH580-BCR and ACH580-BDR







Mounting Dimensions

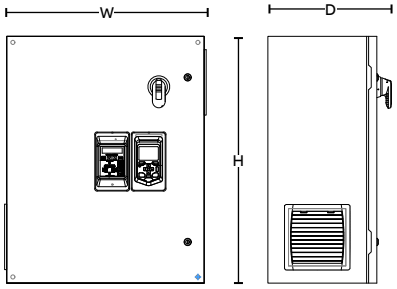


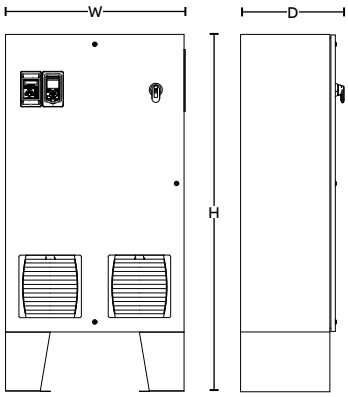
Dim Ref	Height (H)		Width (W)		Depth (D)		Weight		Mounting Dimensions			
									Height (H1)		Width (W1)	
	in	mm	in	mm	in	mm	lb	kg	in	mm	in	mm
ACH580-BCR and ACH580-BDR, E-Clipse bypass drives UL (NEMA) Type 1												
Bx1-1	33.16	842	17.63	447	13.90	353	84.0	38.1	31.89	810	12.60	320
Bx1-2	40.60	1030	20.70	526	15.30	388	139.0	63.0	39.30	998	15.70	400
Bx1-3	47.72	1212	28.24	717	19.04	484	448.0	203.2	46.26	1175	23.62	600
Bx1-4	61.90	1571	19.30	490	19.00	482	200.0	91.7	60.88	1546	10.00	254
Bx1-5	73.40	1865	34.80	883	20.40	518	740.0	335.7	61.38	1559	26.00	660
Bx1-6	78.00	1981	32.00	813	27.30	693	865.0	392.4	Free standing			
Bx1-7	84.00	2134	48.00	1219	27.30	693	1400.0	635.0				
ACH580-BCR and ACH580-BDR, E-Clipse bypass drives UL (NEMA) Type 12												
Bx12-1	33.16	842	17.63	448	13.90	353	84.00	38.0	31.89	810	12.60	320
Bx12-2	40.60	1030	20.70	526	15.30	388	139.0	63.0	39.30	998	15.70	400
Bx12-3	54.18	1376	28.24	717	19.04	484	448.0	203.2	46.26	1175	23.62	600
Bx12-4	48.00	1219	36.00	914	21.00	553	380.0	172.4	46.50	1181	34.50	876
Bx12-5	72.00	1829	36.00	914	20.90	531	740.0	335.7	58.60	1488	34.50	876
Bx12-6	78.00	1981	32.00	813	27.30	693	865.0	392.4	Free standing			
Bx12-7	84.00	2134	48.00	1219	27.30	693	1400.0	635.0				
ACH580-BCR and ACH580-BDR, E-Clipse bypass drives UL (NEMA) Type 3R												
Bx3R-1	33.40	847	17.70	449	14.00	355	83.8	38.0	31.90	810	12.60	320
Bx3R-2	40.71	1034	20.71	526	15.43	392	193.0	87.5	39.30	998	15.70	400
Bx3R-3	39.40	1001	30.00	762	15.87	403	205.0	93.0	34.50	876	28.50	724
Bx3R-4	51.00	1295	36.00	914	20.37	517	390.0	176.9	46.50	1181	34.50	876
Bx3R-5	78.00	1981	44.00	1118	31.25	794	750.0	335.7	Free standing			
Bx3R-6	84.00	2134	60.00	1524	31.25	794	880.0	399.2				

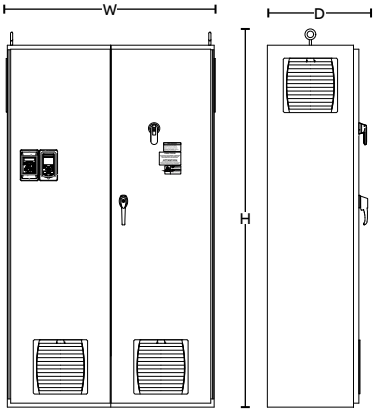
* ABB recommends the use of the included foot mount kit. If wall mounting is required, see configurator for mounting dimensions.

Dimensions

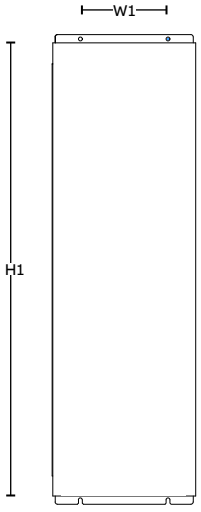
ACH580-BCR and ACH580-BDR with input harmonic filter (+E211)







Mounting Dimensions

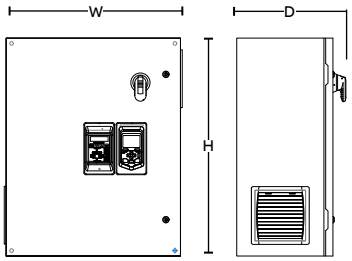


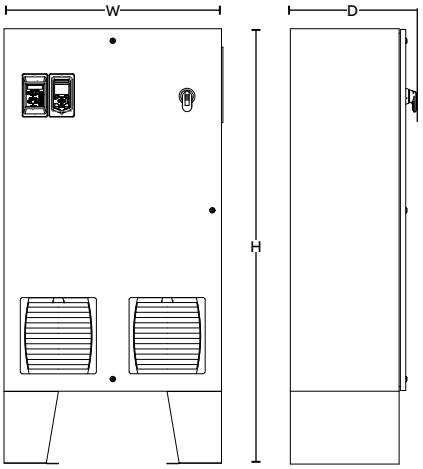
Dim Ref	Height (H)		Width (W)		Depth (D)		Weight		Mounting Dimensions			
									Height (H1)		Width (W1)	
	in	mm	in	mm	in	mm	lb	kg	in	mm	in	mm
ACH580-BCR and ACH580-BDR, E-Clipse bypass drives & input harmonic filter, UL (NEMA) Type 1												
CX1-22	53.44	1357	16.30	414	14.36	365	135.0	61.2	52.44	1332	10.00	254
CX1-23	61.87	1571	19.31	490	18.98	482	200.0	90.7	60.88	1546	10.00	254
CX1-24	73.44	1865	34.75	883	20.40	518	400.0	181.4	Free standing			
Cx1-27	84.00	2134	36.00	914	23.30	592	1100.0	499.0				
Cx1-29	84.00	2134	48.00	1219	23.30	592	1200.0	544.0				
Cx1-31	84.00	2134	60.00	1524	23.30	592	1400.0	635.0				
ACH580-BCR and ACH580-BDR, E-Clipse bypass drives & input harmonic filter, UL (NEMA) Type 12												
Cx12-23	36.00	914	30.00	762	15.00	381	170.0	77.1	34.50	876	28.50	724
Cx12-24	48.00	1219	36.00	914	21.00	533	380.0	172.4	Free standing			
Cx12-25	72.00	1829	36.00	914	20.90	531	570.0	258.6				
Cx12-27	84.00	2134	36.00	914	23.30	592	750.0	340.0				
Cx12-29	84.00	2134	48.00	1219	23.30	592	1200.0	544.0				
Cx12-31	84.00	2134	60.00	1524	23.30	592	1400.0	635.0				

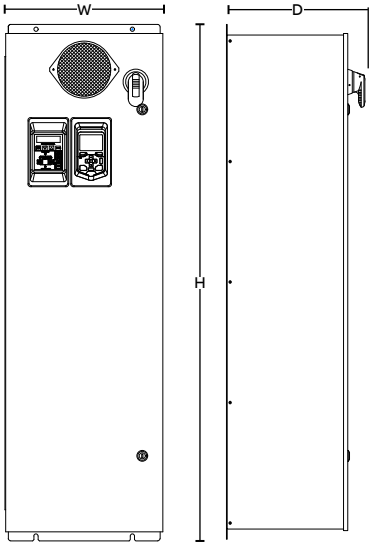
* ABB recommends the use of the included foot mount kit. If wall mounting is required, see configurator for mounting dimensions.

Dimensions

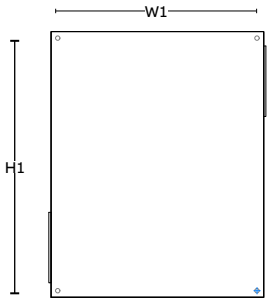
ACH580-BCR and ACH580-BDR with manual motor protectors (+xG405+Mxxx)







Mounting Dimensions

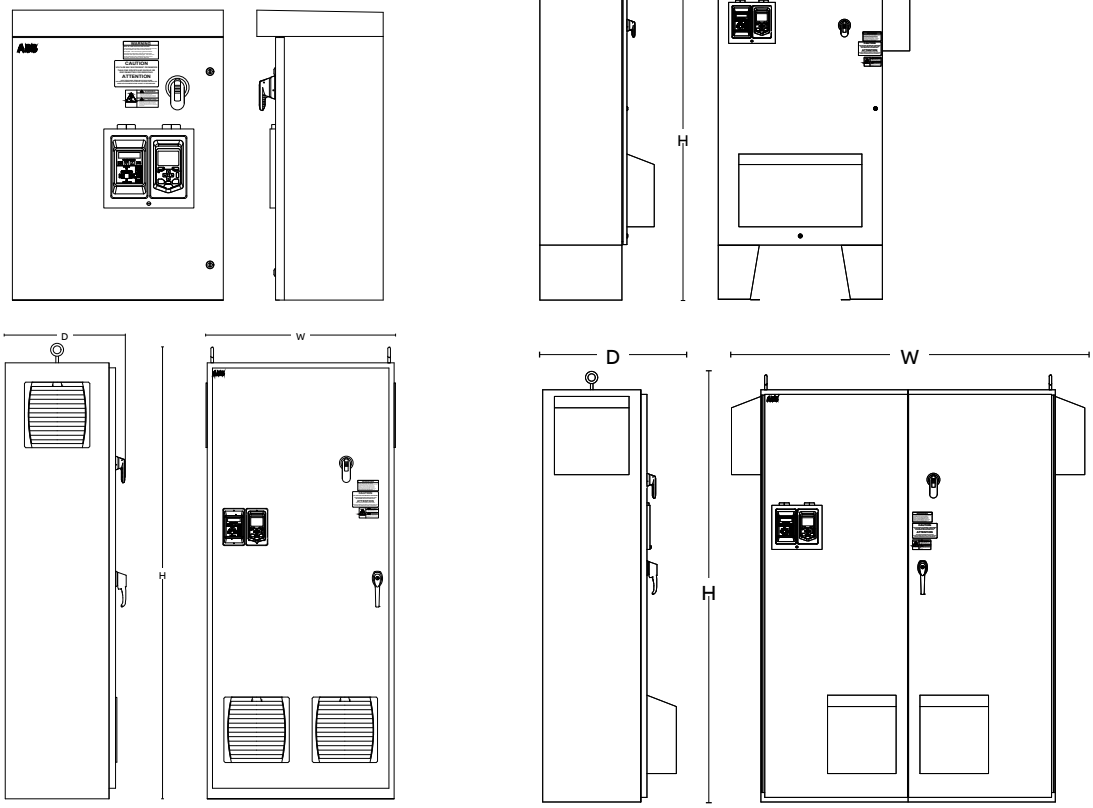


Dim Ref	Height (H)		Width (W)		Depth (D)		Weight		Mounting Dimensions			
									Height (H1)		Width (W1)	
	in	mm	in	mm	in	mm	lb	kg	in	mm	in	mm
ACH580-BCR and ACH580-BDR, E-Clipse bypass drives & manual motor protectors, UL (NEMA) Type 1												
Cx1-21	36.50	927	13.70	348	13.30	338	75.0	34.0	35.50	902	8.00	203
Cx1-22	53.40	1357	16.30	414	14.40	365	135.0	61.0	52.44	1332	10.00	254
Cx1-23	61.90	1571	19.30	490	19.00	482	200.0	91.0	60.88	1546	10.00	254
Cx1-24	73.40	1865	34.80	883	20.40	518	400.0	181.0	Free standing			
ACH580-BCR and ACH580-BDR, E-Clipse bypass drives & manual motor protectors, UL (NEMA) Type 12												
Cx12-22	30.00	762	24.00	610	15.10	383	110.0	50.0	28.50	724	22.50	572
Cx12-23	36.00	914	30.00	762	15.00	381	170.0	77.0	34.50	876	28.50	724
Cx12-24	48.00	1219	36.00	914	21.00	533	380.0	172.0	Free standing			
Cx12-25	72.00	1829	36.00	914	20.90	531	570.0	259.0				

* ABB recommends the use of the included foot mount kit. If wall mounting is required, see configurator for mounting dimensions.

Dimensions

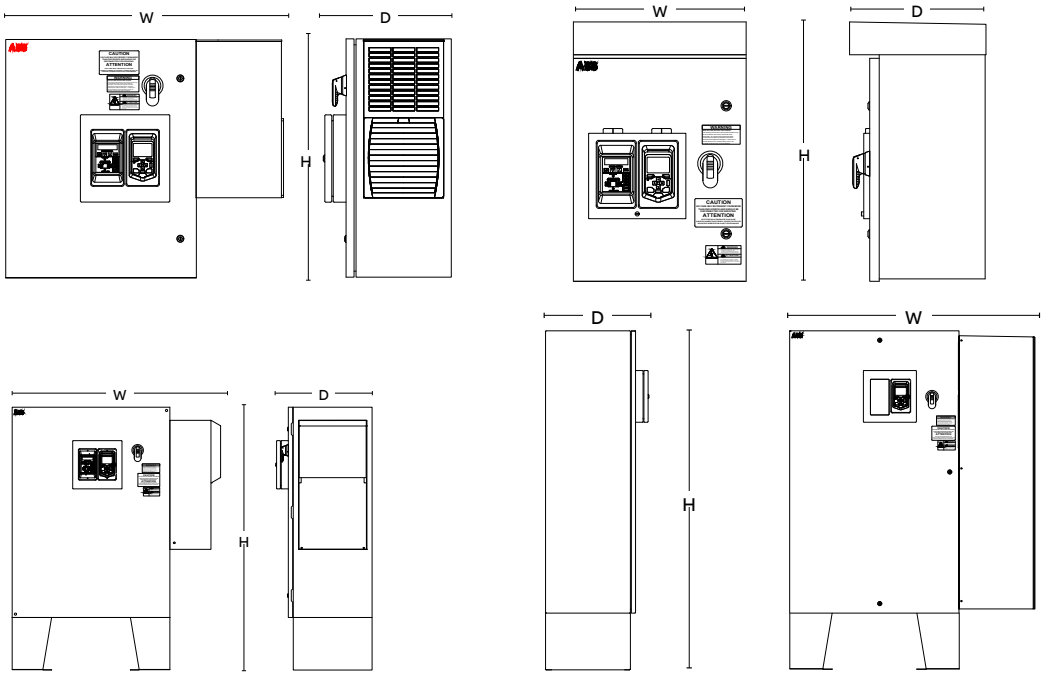
ACH580-BCR and ACH580-BDR with soft starter (+G390)



Dim Ref	Height (H)		Width (W)		Depth (D)		Weight		Mounting Dimensions			
									Height (H1)		Width (W1)	
	in	mm	in	mm	in	mm	lb	kg	in	mm	in	mm
ACH580-BCR and ACH580-BDR, E-Clipse bypass drives & soft starter, UL (NEMA) Type 1												
CX1-21	36.5	927	13.7	348	13.3	338	75	34	35.5	902	8	203
CX1-22	53.4	1357	16.3	414	14.4	365	135	61	52.4	1332	10	254
CX1-23	61.9	1571	19.3	490	19	482	200	91	60.9	1546	10	154
CX1-24	73.4	1865	34.8	883	20.4	518	400	182	61.4	1559	26	660
CX1-27	84	2134	36	914	23.3	592	1100	500	Freestanding			
CX1-31	84	2134	60	1524	23.3	592	1400	636				
ACH580-BCR and ACH580-BDR, E-Clipse bypass drives & soft starter, UL (NEMA) Type 12												
CX12-22	30	762	24	610	15	381	110	50	28.5	724	22.5	572
CX12-23	36	914	30	762	15	381	170	77	34.5	876	28.5	724
CX12-24	48	1219	36	914	21	533	380	173	46.5	1181	34.5	876
CX12-25	72	1829	36	914	20.9	531	570	259	58.6	1488	34.5	876
CX12-27	84	2134	36	914	23.3	592	750	341	Freestanding			
CX12-31	84	2134	60	1524	23.3	592	1400	636				
ACH580-BCR and ACH580-BDR, E-Clipse bypass drives & soft starter, UL (NEMA) Type 3R												
CX3R-22	33	838	24	610	14.4	366	130	59	28.2	724	22.5	572
CX3R-23	39.4	1001	30	762	15.9	404	190	86	34.5	876	28.5	724
CX3R-24	51	1295	36	914	20.4	518	400	182	46.5	1181	34.5	876
CX3R-25	72	1829	42	1067	25.1	638	475	216	58.6	1488	34.5	876
CX3R-27	84	2134	48	1219	27.3	693	600	273	Freestanding			
CX3R-31	84	2134	72	1829	27.3	693	900	409				

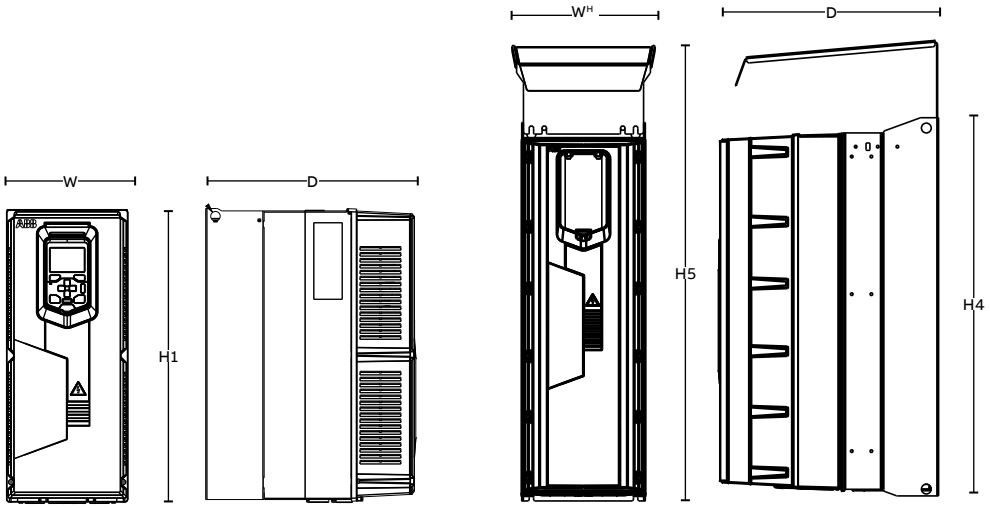
Dimensions

ACH580-PCR and ACH580-PDR with special enclosure (+B058+C165, +B057, +B063+C165)

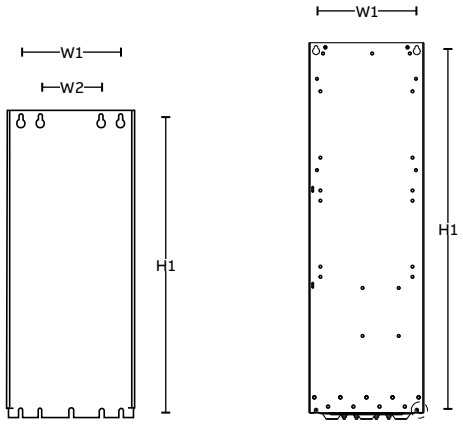


Dim Ref	Height (H)		Width (W)		Depth (D)		Weight		Mounting Dimensions			
									Height (H1)		Width (W1)	
	in	mm	in	mm	in	mm	lb	kg	in	mm	in	mm
ACH580-PCR and ACH580-PDR, drive with Special Enclosures, UL (NEMA) Type 4												
CX4-10	24.00	610	25.50	648	15.90	404	120.0	55	22.50	572	16.50	419
CX4-11	30.00	762	34.80	884	15.90	404	185.0	84	28.50	724	22.50	572
CX4-12	36.00	914	40.80	1036	17.80	452	285.0	130	34.50	876	28.50	724
CX4-13	36.00	914	41.60	1057	21.80	554	340.0	155	34.50	876	28.50	724
CX4-14	36.00	914	44.60	1133	17.80	452	340.0	155	34.50	876	28.50	724
CX4-15	60.00	1524	47.60	1209	21.80	554	415.0	189	46.50	1181	34.50	876
CX4-16	60.00	1524	50.60	1285	21.80	554	450.0	205	46.50	1181	34.50	876
CX4-17	60.00	1524	48.80	1240	21.80	554	500.0	227	46.50	1181	34.50	876
CX4-18	72.00	1829	50.60	1285	21.80	554	575.0	261	58.50	1486	34.50	876
CX4-19	72.00	1829	50.40	1280	21.80	554	625.0	284	58.50	1486	34.50	876
CX4-20	72.00	1829	52.10	1323	21.80	554	660.0	300	58.50	1486	34.50	876
ACH580-PCR and ACH580-PDR, drive with Special Enclosures, UL (NEMA) Type 4x												
CX4X-10	24.00	610	25.50	648	15.90	404	120.0	55	22.50	572	16.50	419
CX4X-11	30.00	762	34.80	884	15.90	404	185.0	84	28.50	724	22.50	572
CX4X-12	36.00	914	40.80	1036	17.80	452	285.0	130	34.50	876	28.50	724
CX4X-13	36.00	914	41.60	1057	21.80	554	340.0	155	34.50	876	28.50	724
CX4X-14	36.00	914	44.60	1133	17.80	452	340.0	155	34.50	876	28.50	724
CX4X-15	60.00	1524	47.60	1209	21.80	554	415.0	189	46.50	1181	34.50	876
CX4X-16	60.00	1524	50.60	1285	21.80	554	450.0	205	46.50	1181	34.50	876
CX4X-17	60.00	1524	48.80	1240	21.80	554	500.0	227	46.50	1181	34.50	876
CX4X-18	72.00	1829	50.60	1285	21.80	554	575.0	261	58.50	1486	34.50	876
CX4X-19	72.00	1829	50.40	1280	21.80	554	625.0	284	58.50	1486	34.50	876
CX4X-20	72.00	1829	52.10	1323	21.80	554	660.0	300	58.50	1486	34.50	876
ACH580-PCR and ACH580-PDR, drive with Special Enclosures, UL (NEMA) Type 3Rx												
CX3RX-11	27.30	693	18.20	462	14.40	366	80.0	36	22.50	572	16.50	419
CX3RX-12	33.00	838	24.00	610	14.40	366	125.0	57	28.50	724	22.50	572
CX3RX-13	39.40	1001	30.00	762	15.90	404	190.0	86	34.50	876	28.50	724
CX3RX-14	51.00	1295	36.00	914	20.40	518	400.0	182	46.50	1181	34.50	876
CX3RX-15	72.00	1829	42.00	1067	25.10	638	485.0	220	58.50	1486	34.50	876

Dimensions
ACH580-31



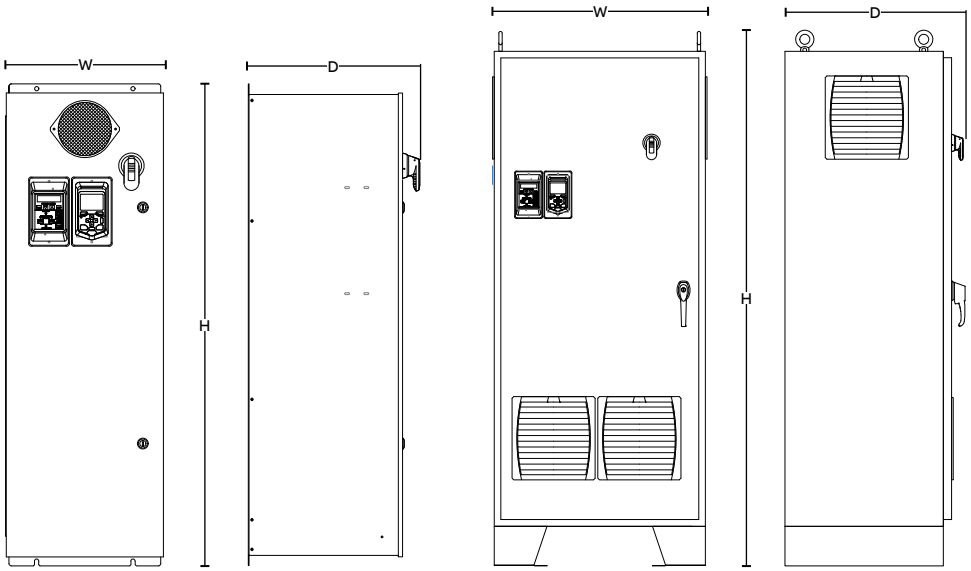
Mounting Dimensions



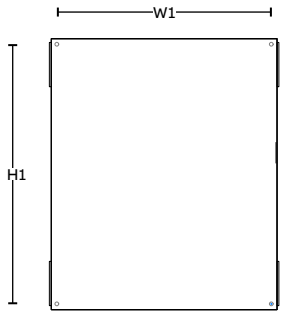
Dim Ref	Height (H1, H4)		Height (H5)		Width (W)		Width (W^H)		Depth (D)		Weight		Mounting Dimensions					
													Height (H1)		Width (W1)		Width (W2)	
	in	mm	in	mm	in	mm	in	mm	in	mm	lb	kg	in	mm	in	mm	in	mm
ACH580-31, ultra-low harmonic drive, UL (NEMA) Type 1																		
31-1-R3	19.49	495	---	---	8.07	205	---	---	13.74	349	47.0	21.3	18.66	474	6.30	160	---	---
31-1-R6	30.35	771	---	---	9.92	252	---	---	15.44	392	134.5	61.0	29.65	753	8.37	212	6.30	160
31-1-R8	38.01	965	---	---	11.81	300	---	---	17.23	438	247.0	112.0	37.20	945	10.33	262	---	---
ACH580-31, ultra-low harmonic drive, UL (NEMA) Type 12																		
31-12-R3	19.49	495	---	---	8.07	205	---	---	14.17	360	51.4	23.3	18.66	474	6.30	160	---	---
31-12-R6	30.35	771	36.56	929	9.92	252	11.46	291	17.65	448	138.9	63.0	29.65	753	8.37	212	6.30	160
31-12-R8	38.01	965	44.22	1123	11.81	300	13.80	350	19.53	496	260.0	118.0	37.20	945	10.33	262	---	---

Dimensions

ACH580-3BxR, enclosed ultra-low harmonic drive



Mounting Dimensions

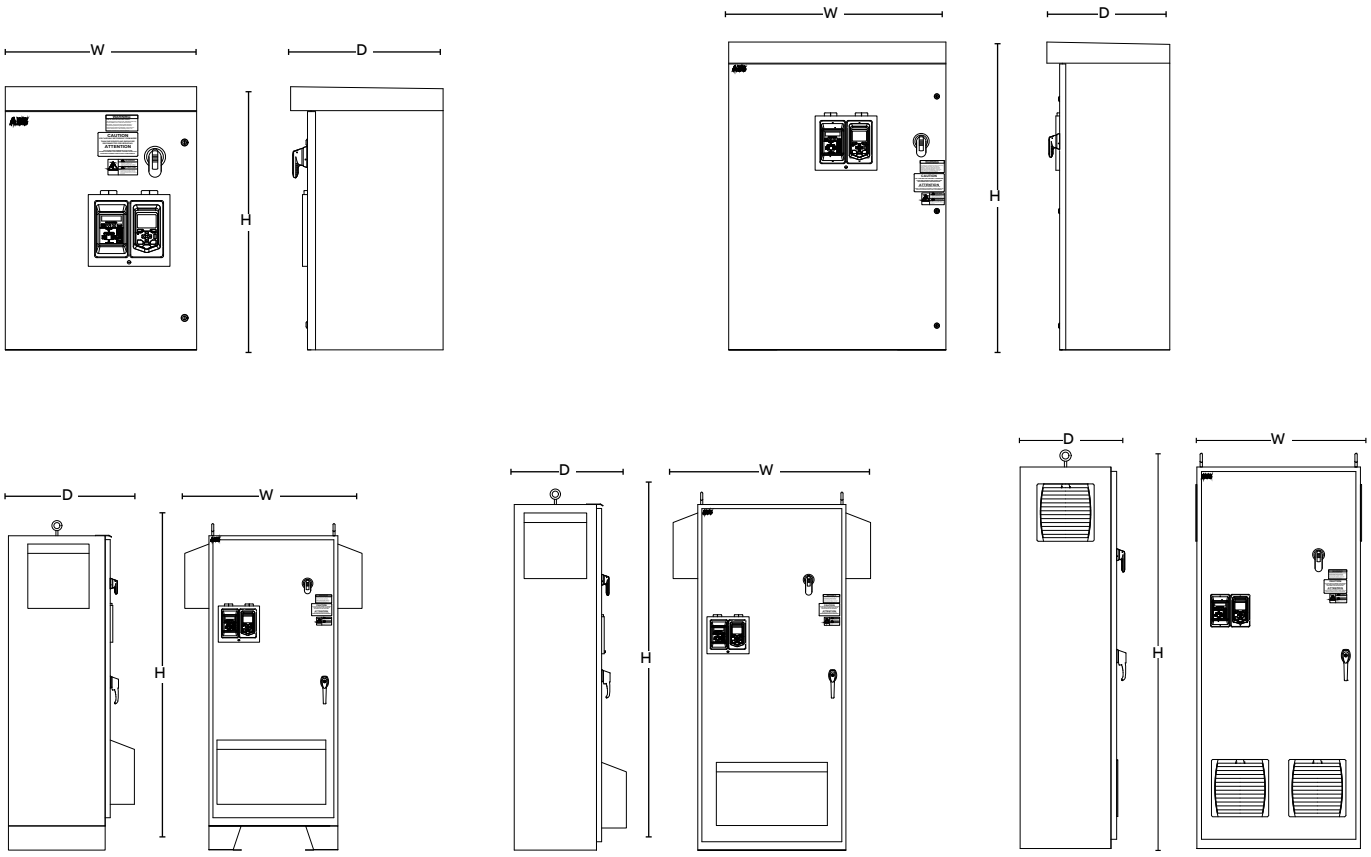


Dim Ref	Height (H)		Width (W)		Depth (D)		Weight		Mounting Dimensions			
									Height (H1)		Width (W1)	
	in	mm	in	mm	in	mm	lb	kg	in	mm	in	mm
ACH580 BCR and BDR, ultra-low harmonic E-Clipse bypass drive, UL (NEMA) Type 1												
Bx1-31	50.00	1270	16.30	414	17.80	452	150.0	68.0	49.00	1245	10.00	254
Bx1-32	61.90	1572	19.30	490	19.00	483	225.0	102.0	60.90	1547	10.00	254
Bx1-33	73.40	1864	35.00	889	20.40	518	500.0	227.0	Free standing			
ACH580 BCR and BDR, ultra-low harmonic E-Clipse bypass drive, UL (NEMA) Type 12												
Bx12-31	36.00	914	30.00	762	19.00	483	225.0	102.0	37.00	940	6.00	152
Bx12-32	48.00	1219	36.00	914	21.00	533	350.0	159.0	50.00	1270	8.00	203
Bx12-33	78.00	1981	32.00	813	27.30	693	575.0	261.0	Free standing			

* ABB recommends the use of the included foot mount kit. If wall mounting is required, see configurator for mounting dimensions.

Dimensions

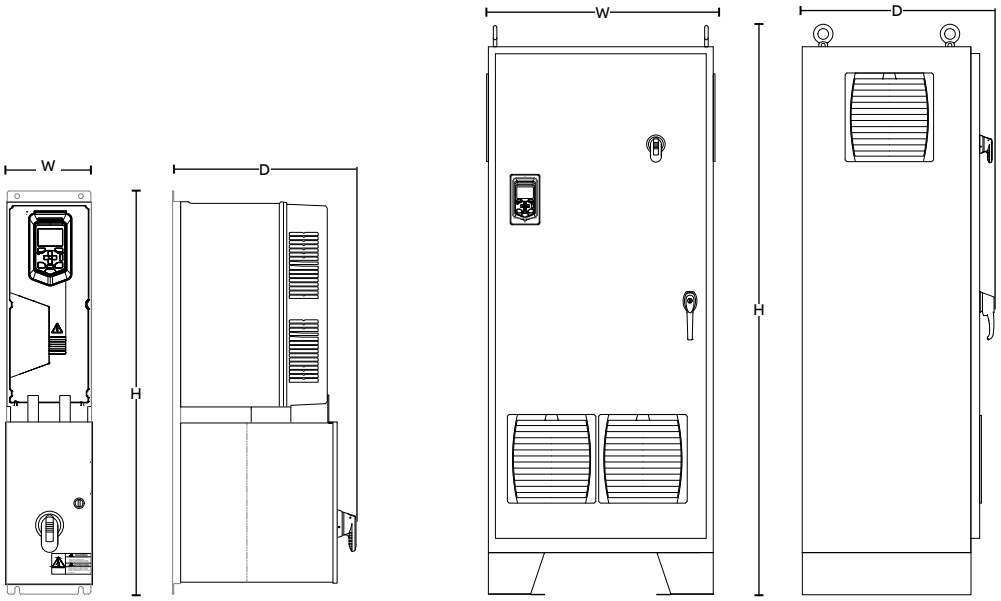
ACH580-3BxR, enclosed ultra-low harmonic drive with softstarter (+G390)



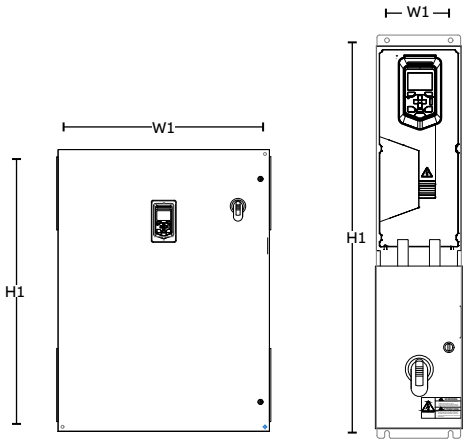
Dim Ref	Height (H)		Width (W)		Depth (D)		Weight		Mounting Dimensions			
									Height (H1)		Width (W1)	
	in	mm	in	mm	in	mm	lb	kg	in	mm	in	mm
ACH580 BCR and BDR, ultra-low harmonic E-Clipse bypass drive and soft starter, UL (NEMA) Type 1												
BX1-31	50.00	1270	16.30	414	17.80	452	150.0	68.0	49.00	1245	10.00	254
BX1-32	61.90	1571	19.30	490	19.00	482	225.0	102.0	60.90	1546	10.00	254
BX1-33	73.40	1865	35.00	889	20.40	518	500.0	227.0	61.40	1559	26.00	660
BX1-34	84.00	2134	36.00	914	23.30	592	1100.0	500.0	Free standing			
ACH580 BCR and BDR, ultra-low harmonic E-Clipse bypass drive and soft starter, UL (NEMA) Type 12												
BX12-31	30.00	762	24.00	610	18.90	480	215.0	98.0	28.50	724	22.50	572
BX12-32	48.00	1219	36.00	914	21.00	533	350.0	159.0	46.50	1181	34.50	876
BX12-33	78.00	1981	32.00	813	27.30	693	575.0	261.0	Free standing			
BX12-34	84.00	2134	36.00	914	23.30	592	1100.0	500.0				
ACH580 BCR and BDR, ultra-low harmonic E-Clipse bypass drive and soft starter, UL (NEMA) Type 3R												
BX3R-31	33.00	838	24.00	610	19.10	485	125.0	57.0	28.50	724	22.50	572
BX3R-32	51.00	1295	36.00	914	20.40	518	390.0	177.0	46.50	1181	34.50	876
BX3R-33	78.00	1981	44.00	1118	31.30	795	620.0	282.0	Free standing			
BX3R-34	84.00	2134	48.00	1219	27.30	692	1100.0	500.0				

Dimensions

ACH580-3PxR, packaged ultra-low harmonic drive



Mounting Dimensions

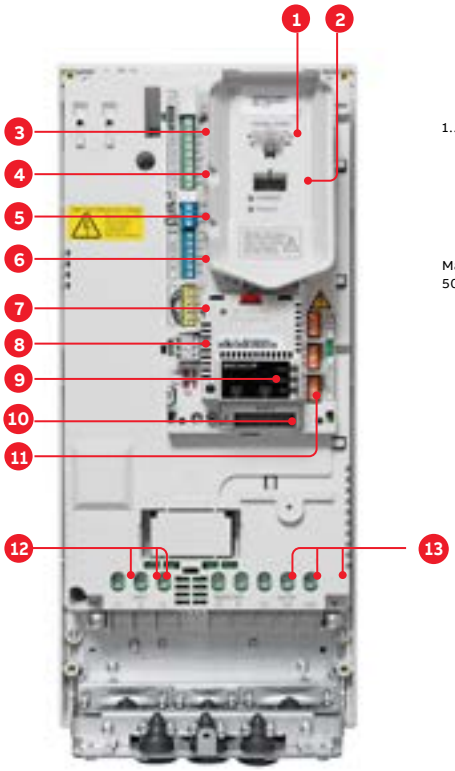


Dim Ref	Height (H)		Width (W)		Depth (D)		Weight		Mounting Dimensions			
									Height (H1)		Width (W1)	
	in	mm	in	mm	in	mm	lb	kg	in	mm	in	mm
ACH580 PCR and PDR, ultra-low harmonic packaged drive with disconnect means, UL (NEMA) Type 1												
PxB1-31	38.00	965	8.00	203	17.30	439	80.0	36.0	37.00	940	6.00	152
PxB1-32	51.00	1295	10.00	254	18.80	478	200.0	91.0	50.00	1270	8.00	203
PxB1-33	61.90	1572	19.30	490	21.00	533	400.0	181.0	60.90	1547	10.00	254
ACH580 PCR and PDR, ultra-low harmonic packaged drive with disconnect means, UL (NEMA) Type 12												
PxB12-31	36.00	914	30.00	762	19.00	483	200.0	91.0	34.50	876	28.50	724
PxB12-32	48.00	1219	36.00	914	21.00	533	320.0	145.0	46.50	1181	34.50	876
PxB12-33	78.00	1981	32.00	813	27.30	693	525.0	238.0	Free standing			

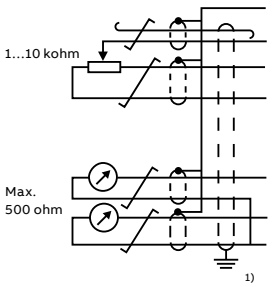
* ABB recommends the use of the included foot mount kit. If wall mounting is required, see configurator for mounting dimensions.

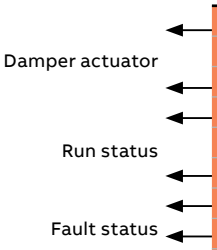
ACH580 standard I/O diagram

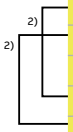
Default control connections



1. Panel port (PC tools, control panel)
2. ABB drive customizer port for programming the drive without mains
3. Analog inputs (2 × AI)
4. Analog outputs (2 × AO)
5. 24 V DC output
6. Digital inputs (6 × DI)
7. Safe torque off (STO)
8. Embedded fieldbus
9. Communication options (fieldbuses)
10. I/O extensions
11. Relay outputs (3 × RO)
12. Mains connection
13. Motor connection







Terminal	Meaning	Default connections		
X1	**Reference voltage and analog inputs and outputs**			
1	SCR	Signal cable shield (screen)		
2	AI1	**Output frequency/speed reference:** 0 to 10 V		
3	AGND	Analog input circuit common		
4	+10 V	Reference voltage 10 V DC		
5	AI2	**Actual feedback:** 0 to 20 mA		
6	AGND	Analog input circuit common		
7	AO1	**Output frequency:** 0 to 10 V		
8	AO2	**Motor current:** 0 to 20 mA		
9	AGND	Analog output circuit common		
X2 & X3	**Aux. voltage output and programmable digital inputs**			
10	+24 V	Aux. voltage output +24 V DC, max. 250 mA		
11	DGND	Aux. voltage output common		
12	DCOM	Digital input common for all		
13	DI1	**Stop (0)/Start (1)**		
14	DI2	Not configured		
15	DI3	**Constant frequency/speed selection**		
16	DI4	**Start interlock 1 (1 = allow start)**		
17	DI5	Not configured		
18	DI6	Not configured		
X6, X7, X8	**Relay outputs**			
19	RO1C	**Damper control** 250 V AC/30 V DC 2 A		Energize damper 19 connected to 21
20	RO1A			
21	RO1B			
22	RO2C	**Running** 250 V AC/30 V DC 2 A		Running 22 connected to 24
23	RO2A			
24	RO2B			
25	RO3C	**Fault (-1)** 250 V AC/30 V DC 2 A		Fault condition 25 connected to 26
26	RO3A			
27	RO3B			
X5	**Embedded fieldbus**			
29	B+	Embedded fieldbus, EFB (EIA-485)		
30	A-			
31	DGND			
S4	TERM	Termination switch		
S5	BIAS	Bias resistors switch		
X4	**Safe torque off**			
34	OUT1	Safe torque off. Factory connection. Both circuits must be closed for the drive to start. See chapter *The Safe torque off function* in the *hardware manual* of the drive.		
35	OUT2			
36	SGND			
37	IN1			
38	IN2			
X10	**24 V AC/DC**			
40	24 V AC/DC+ in	R6 to R11 and all ACH580-31 and ACH580-34: Ext. 24 V AC/DC input to power up the control unit when the main supply is disconnected.		
41	24 V AC/DC- in			

Notes:

1) Ground the outer shield of the cable 360° under the grounding clamp on the grounding shelf for the control cables.

2) Connected with jumpers at the factory.

I/O options

ABB HVAC drives are very flexible in terms of I/O configuration. The standard I/O is suitable for most HVAC applications. On top of that, ACH580 provides great flexibility with different I/O options.

Option code	Description	Type designation
+L501*	External 24 V DC/AC and digital I/O extension (2xRO and 1xDO)	CMOD-01
+L512*	115/230V digital input (6xDI and 2xRO)	CHDI-01

* Not available as plus code on Bypass

Fieldbus options

The HVAC communication protocols BACnet MS/TP, Modbus RTU and N2 are there as standard. Should that not be enough, the other protocols are supported with optional adapters.

Option code	Drive/Bypass	Fieldbus protocol	Adapter
+K451	Available	DeviceNet	FDNA-01-KIT
+K452	Available	LonWorks	FLON-01-KIT
+K454	Available	PROFIBUS-DP	FPBA-01-KIT
+K465	Available	BACnet/IP (2-port)	FBIP-21-KIT
+K475	Available	Ethernet/IP, PFROFINET IO, Modbus TCP (2-port)	FENA-21-KIT
+K490	Available	Ethernet I/P (2-port)	FEIP-21-KIT
+K491	Available	Modbus TCP (2-port)	FMBT-21-KIT
+K492	Drive only	PROFINET TCP (2-port)	FPNO-21-KIT

Motors Contents

HVAC motors

Baldor-Reliance® HVAC motors are specifically engineered with industry-driven designs to keep your air handling systems running smoothly, quietly, and efficiently, which means better system reliability and performance, with less maintenance.

Key features:

- Dynamically balanced rotor to reduce noise and increase bearing life
- Color coded and numbered leads for ease of connectivity
- Bar code spec number for easy identification
- Low noise vibration dampening bases
- Baldor-Reliance motors meet or exceed all efficiency requirements for US, Canada and Mexico regulations

Inverter-Duty®

three phase, TEFC, foot mounted
with internal Baldor-Reliance® shaft grounding brush 1 thru 50 HP

Features:

- Class H insulation for increased protection on inverter use
- Internal grounding brush for bearing current mitigation on DE retainer ring
- Designed for longevity with 3 year warranty
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2

Applications:

- Fans
- Pumps
- Blowers
- Unit handling
- HVAC systems
- Variable speed applications
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
Foot mounted									
1	1800	143T	EM3546T-BG	13.31	38	85.5	230/460	1.5	8,30
	1800	143T	EM3581T-BG	12.54	55	85.5	230/460	1.5	8,30
	1200	145T	EM3582T-BG	12.54	56	82.5	230/460	1.7	8,30
1 1/2	3600	143T	EM3583T-BG	12.54	56	84	230/460	1.9	8,30
	1800	145T	EM3554T-BG	13.31	41	86.5	230/460	2.2	8,30
	1800	145T	EM3584T-BG	12.54	61	86.5	230/460	2.3	8,30
	1200	182T	EM3667T-BG	15.24	99	87.5	230/460	2.5	8
2	3600	145T	EM3555T-BG	13.31	41	85.5	230/460	2.5	8,30
	3600	145T	EM3586T-BG	12.54	62	85.5	230/460	2.5	8,30
	1800	145T	EM3558T-BG	13.31	45	86.5	230/460	2.9	8,30
	1800	145T	EM3587T-BG	12.54	62	86.5	230/460	2.9	8,30
	1200	184T	EM3664T-BG	15.24	123	88.5	230/460	3.15	8,30
3	3600	145T	EM3559T-BG	14.19	50	86.5	230/460	3.6	8,30
	3600	182T	EM3660T-BG	15.24	58	86.5	230/460	3.8	8,30
	1800	182T	EM3611T-BG	16.54	70	89.5	230/460	4.2	8,30
	1800	182T	EM3661T-BG	15.24	105	89.5	230/460	4.1	8,30
	1200	213T	EM3704T-BG	19.01	132	89.5	230/460	4.6	8,30
	1200	213T	EM3764T-BG	18.45	211	89.5	230/460	4.5	8,30
5	3600	184T	EM3613T-BG	16.54	74	88.5	230/460	5.9	8,30
	3600	184T	EM3663T-BG	15.24	99	88.5	230/460	5.8	8,30
	1800	184T	EM3615T-BG	18.04	93	89.5	230/460	6.7	8,30
	1800	184T	EM3665T-BG	15.24	115	89.5	230/460	6.6	8,30
	1200	215T	EM3708T-BG	19.76	154	89.5	230/460	7.3	8,30
	1200	215T	EM3768T-BG	18.45	198	89.5	230/460	7.4	8,30
7 1/2	3600	213T	EM3709T-BG	17.89	121	89.5	230/460	9	8,30
	3600	213T	EM3769T-BG	18.45	169	89.5	230/460	9	8,30
	1800	213T	EM3710T-BG	19.01	127	91.7	230/460	9.4	8,30
	1800	213T	EM3770T-BG	18.45	193	91.7	230/460	9.5	8,30
	1200	254T	EM2276T-BG	23.30	310	91	230/460	11	30
10	3600	215T	EM3711T-BG	17.89	118	90.2	230/460	11.8	8,30
	3600	215T	EM3771T-BG	18.45	164	90.2	230/460	11.8	8,30
	1800	215T	EM3714T-BG	20.51	165	91.7	230/460	12	8,30
	1800	215T	EM3774T-BG	18.45	232	91.7	230/460	12.2	8,30
	1200	256T	EM2332T-BG	23.30	322	91	230/460	14.1	8,30

(a) See notes on inside back flap.
* IP54 when drain fitting kit #HA5027A03 is installed in the weep holes (48 thru 256T frame motors only)
Cast iron frame

Inverter-Duty® three phase, TEFC, foot mounted with internal Baldor-Reliance® shaft grounding brush 1 thru 50 HP

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
Foot mounted continued									
15	3600	254T	EM2394T-BG	23.30	253	91	230/460	17.5	8,30
	1800	254T	EM2333T-BG	23.30	274	92.4	230/460	18.1	8,30
	1200	284T	EM4100T-BG	27.76	372	91.7	230/460	21	8,30
20	1800	256T	EM2334T-BG	23.30	290	93	230/460	24	8,30
	1200	286T	EM4102T-BG	27.76	406	91.7	230/460	27	8,30
25	1800	284T	EM4103T-BG	27.76	420	93.6	230/460	30	8,30
	1200	324T	EM4111T-BG	30.39	475	93	230/460	32	8,30
30	1800	286T	EM4104T-BG	27.76	437	93.6	230/460	38	8,30
40	1800	324T	EM4110T-BG	30.28	578	94.1	230/460	48	8,30
50	1800	326T	EM4115T-BG	30.28	641	94.5	230/460	58	8,30
C-Face, foot mounted									
1/2	1800	56C	CEM3538-BG	12.23	33	82.5	208-230/460	0.8	8
3/4	1800	56C	CEM3542-BG	12.23	37	84	208-230/460	1.1	8,12
1	1800	143TC	CEM3546T-BG	13.29	38	85.5	230/460	1.5	8,30
1 1/2	1800	145TC	CEM3554T-BG	13.29	41	86.5	230/460	2.2	8,30
2	1800	145TC	CEM3558T-BG	13.29	45	86.5	230/460	2.9	8,30
3	1800	182TC	CEM3611T-BG	16.55	70	89.5	230/460	4.2	8,30
5	1800	184TC	CEM3615T-BG	18.05	93	89.5	230/460	6.7	8,30

(a) See notes on inside back flap.

* IP54 when drain fitting kit #HA5027A03 is installed in the weep holes (48 thru 256T frame motors only)

Cast iron frame

Inverter-Duty®

three phase, ODP, foot mounted
with internal Baldor-Reliance® shaft grounding brush 1 thru 50 Hp

BALDOR · RELIANCE
SHAFT GROUNDING BRUSH
INSTALLED
LB1508

IP22

Features:

- Class H insulation for increased protection on inverter use
- Internal grounding brush for bearing current mitigation on DE retainer ring
- Designed for longevity with 3 year warranty
- Suitable for inverter use per NEMA MG1 Part 31.4.4.

Applications:

- Fans
- Pumps
- Blowers
- Unit handling
- HVAC systems
- Variable speed applications
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
230/460 volt									
1	1800	143T	EM3116T-BG	11.12	38	85.5	230/460	1.6	30
1 1/2	1800	145T	EM3154T-BG	11.62	37	86.5	230/460	2.2	30
2	3600	143T	EM3155T-BG	11.62	43	85.5	230/460	2.5	30
	1800	145T	EM3157T-BG	12.12	43	86.5	230/460	2.9	30
3	3600	145T	EM3158T-BG	13.00	51	85.5	230/460	3.8	30
	1800	182T	EM3211T-BG	15.00	74	89.5	230/460	4.2	30
	1200	213T	EM3305T-BG	16.32	110	88.5	230/460	4.5	30
5	3600	182T	EM3212T-BG	13.62	63	86.5	230/460	6	30
	1800	184T	EM3218T-BG	16.50	92	89.5	230/460	6.6	30
	1200	215T	EM3309T-BG	17.45	141	89.5	230/460	7.4	30
7 1/2	3600	184T	EM3219T-BG	15.00	77	88.5	230/460	8.6	30
	1800	213T	EM3311T-BG	16.32	115	91	230/460	9.7	30
	1200	254T	EM2506T-BG	23.19	248	90.2	230/460	11	30
10	3600	213T	EM3312T-BG	16.32	121	89.5	230/460	12	30
	1800	215T	EM3313T-BG	17.45	129	91.7	230/460	12.5	30
	1200	256T	EM2511T-BG	23.19	255	91.7	230/460	14.3	30
15	3600	215T	EM3314T-BG	16.32	131	90.2	230/460	17.5	30
	1800	254T	EM2513T-BG	21.69	234	93	230/460	17.7	30
	1200	284T	EM2524T-BG	23.81	300	91.7	230/460	20.5	30
20	1800	256T	EM2515T-BG	21.69	228	93	230/460	23.5	30
	1200	286T	EM2528T-BG	23.81	321	92.4	230/460	27	30
25	1800	284T	EM2531T-BG	25.06	387	93.6	230/460	30	30
30	1800	286T	EM2535T-BG	25.06	341	94.1	230/460	35	30
40	1800	324T	EM2539T-BG	27.19	324	94.1	230/460	49	30
50	1800	326T	EM2543T-BG	27.69	497	94.5	230/460	57	30
575 volt									
3	1800	182T	EM3211T-5BG	15.00	74	89.5	575	3.3	8
5	1800	184T	EM3218T-5BG	16.50	92	89.5	575	5.3	8
7 1/2	1800	213T	EM3311T-5BG	16.32	120	91.7	575	7.6	8
10	1800	215T	EM3313T-5BG	17.45	132	91.7	575	10	8
15	1800	254T	EM2513T-5BG	23.19	250	93	575	14.2	8
20	1800	256T	EM2515T-5BG	23.19	250	93	575	19.1	8
25	1800	284T	EM2531T-5BG	25.00	388	93.6	575	24.5	8
30	1800	286T	EM2535T-5BG	23.81	378	94.1	575	29	8
40	1800	324T	EM2539T-5BG	27.19	400	94.1	575	40	8
50	1800	326T	EM2543T-5BG	27.69	525	94.5	575	46	8

(a) See notes on inside back flap.

Inverter-Duty®

three phase, TEFC, C-Face, foot mounted
with internal AEGIS® bearing protection ring 1 thru 100 Hp

AEGIS® SGR BEARING PROTECTION RING
AEGIS INSTALLED

IP44*

Features:

- Class H insulation for increased protection on inverter use
- Internal grounding ring for bearing current mitigation
- Designed for longevity with 3 year warranty
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2

Applications:

- Fans
- Pumps
- Blowers
- Unit handling
- HVAC systems
- Variable speed applications
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
230/460 volt									
1	3600	56C	CEM3545-G	12.23	32	77	230/460	1.4	8, 12, 30
	1800	143TC	CEM3546T-G	13.29	30	85.5	230/460	1.5	8, 30
	1200	145TC	CEM3556T-G	13.29	43	82.5	230/460	1.8	8, 30
1 1/2	3600	143TC	CEM3550T-G	13.29	36	84	230/460	1.9	8, 30
	1800	145TC	CEM3554T-G	13.29	42	86.5	230/460	2.2	8, 30
	1200	182TC	CEM3607T-G	16.54	76	87.5	230/460	2.4	8, 30
2	3600	145TC	CEM3555T-G	13.29	46	85.5	230/460	2.5	8, 30
	1800	145TC	CEM3558T-G	14.17	42	86.5	230/460	2.9	8, 30
	1200	184TC	CEM3614T-G	18.05	94	88.5	230/460	3.5	8, 30
3	3600	145TC	CEM3559T-G	14.17	53	86.5	230/460	3.6	8, 30
		182TC	CEM3610T-G	15.16	50	86.5	230/460	3.6	8, 30
	1800	182TC	CEM3611T-G	16.55	74	89.5	230/460	4.2	8, 30
	1200	213TC	CEM3704T-G	19.76	135	89.5	230/460	4.6	8, 30
5	3600	184TC	CEM3613T-G	16.55	76	88.5	230/460	5.9	8, 30
	1800	184TC	CEM3615T-G	18.05	92	89.5	230/460	6.7	8, 30
	1200	215TC	CEM3708T-G	19.20	154	89.5	230/460	7.3	8, 30
7 1/2	3600	213TC	CEM3709T-G	18.63	133	89.5	230/460	9	8, 30
	1800	213TC	CEM3710T-G	19.76	129	91.7	230/460	9.4	8, 30
	1200	254TC	CEM2276T-G	23.30	281	91	230/460	11	8, 30
10	3600	215TC	CEM3711T-G	18.63	118	90.2	230/460	11.8	8, 30
	1800	215TC	CEM3714T-G	21.26	156	91.7	230/460	12	8, 30
	1200	256TC	CEM2332T-G	23.30	322	91	230/460	14.1	8, 30
15	3600	254TC	CEM2394T-G	23.78	239	91	230/460	17.5	8, 30
	1800	254TC	CEM2333T-G	23.78	270	92.4	230/460	18.1	8, 30
	1200	284TC	CEM4100T-G	27.76	369	91.7	230/460	21	8, 30
20	3600	256TC	CEM4106T-G	23.78	261	91	230/460	23	8, 30
	1800	256TC	CEM2334T-G	23.78	295	93	230/460	24	8, 30
	1200	286TC	CEM4102T-G	27.76	393	91.7	230/460	27	8, 30
25	3600	284TSC	CEM4107T-G	26.39	323	91.7	230/460	29	8, 30
	1800	284TC	CEM4103T-G	27.76	400	93.6	230/460	30	8, 30
	1200	324TC	CEM4111T-G	30.39	507	93	230/460	32	8, 30

(a) See notes on inside back flap.
* IP54 when drain fitting kit #HA5027A03 is installed in the weep holes (48 thru 256T frame motors only)
Cast iron frame

Inverter-Duty®, three phase, TEFC, C-Face, foot mounted, with internal AEGIS® bearing protection ring

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
230/460 volt continued									
30	3600	286TSC	CEM4108T-G	26.39	336	91.7	230/460	34	8, 30
	1800	286TC	CEM4104T-G	27.76	410	93.6	230/460	38	8, 30
	1200	326TC	CEM4117T-G	30.28	604	93	230/460	39	8, 30
40	3600	324TSC	CEM4109T-G	28.78	532	92.4	230/460	46	8, 30
	1800	324TC	CEM4110T-G	30.28	596	94.1	230/460	48	8, 30
50	3600	326TSC	CEM4114T-G	28.78	584	93	230/460	56	8, 30
	1800	326TC	CEM4115T-G	30.28	648	94.5	230/460	58	8, 30
60	3600	364TSC	CEM4310T-G	31.36	900	95	230/460	66.3	8, 30
	1800	364TC	CEM4314T-G	33.48	907	95	230/460	68	8, 30
75	3600	365TSC	CEM4313T-G	31.36	966	94.5	230/460	81.9	8, 30
	1800	365TC	CEM4316T-G	33.48	956	95.4	230/460	85.9	8, 30
100	1800	405TC	CEM4400T-G	38.20	1214	95.4	230/460	112	8, 30

(a) See notes on inside back flap.

* IP54 when drain fitting kit #HA5027A03 is installed in the weep holes (48 thru 256T frame motors only)

Cast iron frame

Inverter-Duty®

three phase, TEFC, foot mounted
with internal AEGIS® bearing protection ring 1 thru 100 Hp

AEGIS® SGR BEARING PROTECTION RING
AEGIS INSTALLED

IP44*

Features:

- Class H insulation for increased protection on inverter use
- Internal grounding ring for bearing current mitigation on DE retainer ring
- Designed for longevity with 3 year warranty
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2

Applications:

- Fans
- Pumps
- Blowers
- Unit handling
- HVAC systems
- Variable speed applications
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
230/460 volt									
1	3600	56	EM3545-G	12.23	32	77	230/460	1.4	8,12, 30
	1800	143T	EM3546T-G	12.31	30	85.5	230/460	1.5	8,30
	1800	143T	EM3581T-G	12.54	55	85.5	230/460	1.5	8,30
	1200	145T	EM3556T-G	13.31	43	82.5	230/460	1.8	8,30
	1200	145T	EM3582T-G	12.54	56	82.5	230/460	1.7	8,30
1 1/2	3600	143T	EM3550T-G	12.29	36	84	230/460	1.9	8,30
	3600	143T	EM3583T-G	12.54	56	84	230/460	1.9	8,30
	1800	145T	EM3554T-G	13.31	42	86.5	230/460	2.2	8,30
	1800	145T	EM3584T-G	12.54	61	86.5	230/460	2.3	8,30
	1200	182T	EM3607T-G	16.54	76	87.5	230/460	2.4	8,30
	1200	182T	EM3667T-G	15.24	99	87.5	230/460	2.5	8
2	3600	145T	EM3555T-G	13.29	46	85.5	230/460	2.5	8,30
	3600	145T	EM3586T-G	12.54	62	85.5	230/460	2.5	8,30
	1800	145T	EM3558T-G	13.31	42	86.5	230/460	2.9	8,30
	1800	145T	EM3587T-G	12.54	62	86.5	230/460	2.9	8,30
	1200	184T	EM3614T-G	18.04	94	88.5	230/460	3.5	8,30
	1200	184T	EM3664T-G	15.24	123	88.5	230/460	3.15	8,30
3	3600	145T	EM3559T-G	14.17	53	86.5	230/460	3.6	8,30
	3600	182T	EM3610T-G	15.29	57	86.5	230/460	3.6	8,30
	3600	182T	EM3660T-G	15.24	58	86.5	230/460	3.8	8,30
	1800	182T	EM3611T-G	16.54	74	89.5	230/460	4.2	8,30
	1800	182T	EM3661T-G	15.24	105	89.5	230/460	4.1	8,30
	1200	213T	EM3704T-G	19.01	135	89.5	230/460	4.6	8,30
	1200	213T	EM3764T-G	18.45	211	89.5	230/460	4.5	8,30
5	3600	184T	EM3613T-G	16.54	76	88.5	230/460	5.9	8,30
	3600	184T	EM3663T-G	15.24	99	88.5	230/460	5.8	8,30
	1800	184T	EM3615T-G	18.04	92	89.5	230/460	6.7	8,30
	1800	184T	EM3665T-G	15.24	115	89.5	230/460	6.6	8,30
	1200	215T	EM3708T-G	19.76	154	89.5	230/460	7.3	8,30
	1200	215T	EM3768T-G	18.45	198	89.5	230/460	7.4	8,30
7 1/2	3600	213T	EM3709T-G	17.89	133	89.5	230/460	9	8,30
	3600	213T	EM3769T-G	18.45	169	89.5	230/460	9	8,30
	1800	213T	EM3710T-G	19.01	129	91.7	230/460	9.4	8,30
	1800	213T	EM3770T-G	18.45	193	91.7	230/460	9.5	8,30
	1200	254T	EM2276T-G	23.3	281	91	230/460	11	8,30
10	3600	215T	EM3711T-G	17.89	118	90.2	230/460	11.8	8,30
	3600	215T	EM3771T-G	18.45	164	90.2	230/460	11.8	8,30
	1800	215T	EM3714T-G	20.51	156	91.7	230/460	12	8,30
	1800	215T	EM3774T-G	18.45	232	91.7	230/460	12.2	8
	1200	256T	EM2332T-G	23.3	322	91	230/460	14.1	8,30

(a) See notes on inside back flap.

* IP54 when drain fitting kit #HA5027A03 is installed in the weep holes (48 thru 256T frame motors only)

Cast iron frame

Inverter-Duty®, three phase, TEFC, foot mounted, with internal AEGIS® bearing protection ring

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
230/460 volt continued									
15	3600	254T	EM2394T-G	23.3	239	91	230/460	17.5	8,30
	1800	254T	EM2333T-G	23.3	270	92.4	230/460	18.1	8,30
	1200	284T	EM4100T-G	27.76	369	91.7	230/460	21	8,30
20	3600	256T	EM4106T-G	23.3	261	91	230/460	23	8,30
	1800	256T	EM2334T-G	23.3	295	93	230/460	24	8,30
	1200	286T	EM4102T-G	27.76	393	91.7	230/460	27	8,30
25	3600	284TS	EM4107T-G	24.7	323	91.7	230/460	29	8,30
	1800	284T	EM4103T-G	27.76	400	93.6	230/460	30	8,30
	1200	324T	EM4111T-G	30.39	507	93	230/460	32	8,30
30	3600	286TS	EM4108T-G	24.7	336	91.7	230/460	34	8,30
	1800	286T	EM4104T-G	27.76	410	93.6	230/460	38	8,30
	1200	326T	EM4117T-G	30.28	604	93	230/460	39	8,30
40	3600	324TS	EM4109T-G	28.78	532	92.4	230/460	46	8,30
	1800	324T	EM4110T-G	30.28	596	94.1	230/460	48	8,30
	1200	364T	EM4308T-G	33.48	883	94.1	230/460	49.4	8,30
50	3600	326TS	EM4114T-G	28.78	584	93	230/460	56	8,30
	1800	326T	EM4115T-G	30.28	648	94.5	230/460	58	8,30
	1200	365T	EM4312T-G	33.48	910	94.1	230/460	61.7	8,30
60	3600	364TS	EM4310T-G	31.36	900	95	230/460	66.3	8,30
	1800	364T	EM4314T-G	33.48	907	95	230/460	68	8,30
75	3600	365TS	EM4313T-G	31.36	966	94.5	230/460	81.9	8,30
	1800	365T	EM4316T-G	33.48	956	95.4	230/460	85.9	8,30
100	1800	405T	EM4400T-G	38.2	1214	95.4	230/460	112	8,30
200 volt									
5	1800	184T	EM3665T-8G	15.23	119	89.5	200	15.1	8
7 1/2	1800	213T	EM3770T-8G	18.45	170	91.7	200	21.4	8
10	1800	215T	EM3774T-8G	18.45	231	91.7	200	28	8
15	1800	254T	EM2333T-8G	23.3	254	92.4	200	42.4	8
575 volt									
1	1800	143T	EM3546T-5G	12.31	35	85.5	575	1.2	8
1 1/2	1800	145T	EM3554T-5G	13.31	42	86.5	575	1.8	8
2	1800	145T	EM3558T-5G	13.31	46	86.5	575	2.3	8
3	1800	182T	EM3611T-5G	16.54	76	89.5	575	3.3	8
5	1800	184T	EM3615T-5G	18.04	84	89.5	575	5.3	8
7 1/2	1800	213T	EM3710T-5G	19.01	126	91.7	575	7.6	8
10	1800	215T	EM3714T-5G	20.51	165	91.7	575	9.6	8
15	1800	254T	EM2333T-5G	23.3	250	92.4	575	14.6	8
20	1800	256T	EM2334T-5G	23.3	293	93	575	19.2	8
25	1800	284T	EM4103T-5G	27.76	364	93.6	575	24	8
30	1800	286T	EM4104T-5G	27.76	423	93.6	575	29	8
40	1800	324T	EM4110T-5G	30.28	576	94.1	575	39	8
50	1800	326T	EM4115T-5G	30.28	644	94.5	575	46	8

(a) See notes on inside back flap.

* IP54 when drain fitting kit #HA5027A03 is installed in the weep holes (48 thru 256T frame motors only)

Cast iron frame

Inverter-Duty®

three phase, ODP, C-Face, foot mounted
with internal AEGIS® bearing protection ring 1 thru 100 Hp

AEGIS® SGR BEARING PROTECTION RING
AEGIS INSTALLED

IP22

Features:

- Class H insulation for increased protection on inverter use
- Internal grounding ring for bearing current mitigation
- Designed for longevity with 3 year warranty
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2

Applications:

- Fans
- Pumps
- Blowers
- Unit handling
- HVAC systems
- Variable speed applications
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
230/460 volt									
1	3600	56C	CEM31115-G	11.75	37	78.5	230/460	1.6	8, 12, 15, 30
	1800	143TC	CEM3116T-G	11.12	34	85.5	230/460	1.5	8, 30
	1200	145TC	CEM3156T-G	11.62	40	82.5	230/460	1.8	8, 30
1 1/2	3600	143TC	CEM3120T-G	11.12	34	84	230/460	2	8, 30
	1800	145TC	CEM3154T-G	11.62	38	86.5	230/460	2.2	8, 30
	1200	182TC	CEM3207T-G	15.00	67	86.5	230/460	2.5	8, 30
2	3600	143TC	CEM3155T-G	11.62	41	85.5	230/460	2.5	8, 30
	1800	145TC	CEM3157T-G	12.12	41	86.5	230/460	2.9	8, 30
	1200	184TC	CEM3215T-G	16.50	79	87.5	230/460	3.4	8, 30
3	3600	145TC	CEM3158T-G	13.00	51	85.5	230/460	3.8	8, 30
	1800	182TC	CEM3211T-G	15.00	72	89.5	230/460	4.2	8, 30
	1200	213TC	CEM3305T-G	16.32	131	88.5	230/460	4.5	8, 30
5	3600	182TC	CEM3212T-G	13.62	63	86.5	230/460	6	8, 30
	1800	184TC	CEM3218T-G	16.50	84	89.5	230/460	6.6	8, 30
	1200	215TC	CEM3309T-G	17.45	141	89.5	230/460	7.4	8, 30
7 1/2	3600	184TC	CEM3219T-G	15.00	75	88.5	230/460	8.6	8, 30
	1800	213TC	CEM3311T-G	16.32	130	91	230/460	9.7	8, 30
	1200	254TC	CEM2506T-G	23.19	243	90.2	230/460	11	8, 30
10	3600	213TC	CEM3312T-G	16.32	121	89.5	230/460	12	8, 30
	1800	215TC	CEM3313T-G	17.45	148	91.7	230/460	12.5	8, 30
	1200	256TC	CEM2511T-G	23.19	255	91.7	230/460	14.3	8, 30
15	3600	215TC	CEM3314T-G	16.32	131	90.2	230/460	17.5	8, 30
	1800	254TC	CEM2513T-G	21.69	251	93	230/460	17.7	8, 30
	1200	284TC	CEM2524T-G	23.81	280	91.7	230/460	20.5	8, 30
20	3600	254TC	CEM2514T-G	21.69	185	91	230/460	23.5	8, 30
	1800	256TC	CEM2515T-G	21.69	250	93	230/460	24	8, 30
	1200	286TC	CEM2528T-G	23.81	299	92.4	230/460	27	8, 30
25	3600	256TC	CEM2516T-G	21.69	233	91.7	230/460	28	8, 30
	1800	284TC	CEM2531T-G	25.06	314	93.6	230/460	30	8, 30
	1200	324TC	CEM2532T-G	27.69	384	93	230/460	34	8, 30
30	3600	284TSC	CEM2534T-G	22.44	320	91.7	230/460	35	8, 30
	1800	286TC	CEM2535T-G	25.06	340	94.1	230/460	35	8, 30
	1200	326TC	CEM2536T-G	28.69	457	93.6	230/460	38	8, 30
40	3600	286TSC	CEM2538T-G	22.44	328	92.4	230/460	46	8, 30
	1800	324TC	CEM2539T-G	27.19	392	94.1	230/460	49	8, 30

(a) See notes on inside back flap.

Inverter-Duty®, three phase, ODP, C-Face, foot mounted, with internal AEGIS® bearing protection ring

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
230/460 volt continued									
50	3600	324TSC	CEM2542T-G	25.69	392	93	230/460	56	8, 30
	1800	326TC	CEM2543T-G	27.69	497	94.5	230/460	57	8, 30
60	3600	326TSC	CEM2546T-G	30.69	616	95	230/460	68	8, 30
	1800	364TC	CEM2547T-G	30.69	565	95	230/460	68	8, 30
75	3600	364TSC	CEM2549T-G	33.72	750	95	230/460	87	8, 30
	1800	365TC	CEM2551T-G	33.72	597	95	230/460	85	8, 30
100	3600	365TSC	CEM2550T-4G	36.97	898	95.4	460	115	8, 30
	1800	404TC	CEM2555T-4G	36.97	898	95.4	460	115	8, 30

(a) See notes on inside back flap.

Inverter-Duty®

three phase, ODP, foot mounted
with internal AEGIS® bearing protection ring 1 thru 100 Hp

AEGIS® SGR BEARING PROTECTION RING
AEGIS INSTALLED

IP22

Features:

- Class H insulation for increased protection on inverter use
- Internal grounding ring for bearing current mitigation on DE retainer ring
- Designed for longevity with 3 year warranty
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2

Applications:

- Fans
- Pumps
- Blowers
- Unit handling
- HVAC systems
- Variable speed applications
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
230/460 volt									
1	3600	56	EM31115-G	11.75	27	77	230/460	1.6	8, 12, 15, 30
	1800	143T	EM3116T-G	11.12	34	85.5	230/460	1.5	8, 30
	1200	145T	EM3156T-G	11.62	40	82.5	230/460	1.8	8, 30
1 1/2	3600	143T	EM3120T-G	11.12	34	84	230/460	2	8, 30
	1800	145T	EM3154T-G	11.62	38	86.5	230/460	2.2	8, 30
	1200	182T	EM3207T-G	15	67	86.5	230/460	2.5	8, 30
2	3600	143T	EM3155T-G	11.62	41	85.5	230/460	2.5	8, 30
	1800	145T	EM3157T-G	12.12	41	86.5	230/460	2.9	8, 30
	1200	184T	EM3215T-G	16.5	79	87.5	230/460	3.4	8, 30
3	3600	145T	EM3158T-G	13	46	85.5	230/460	3.8	8, 30
	1800	182T	EM3211T-G	15	72	89.5	230/460	4.2	8, 30
	1200	213T	EM3305T-G	16.32	110	88.5	230/460	4.5	8, 30
5	3600	182T	EM3212T-G	13.62	63	86.5	230/460	6	8, 30
	1800	184T	EM3218T-G	16.5	84	89.5	230/460	6.6	8, 30
	1200	215T	EM3309T-G	17.45	141	89.5	230/460	7.4	8, 30
7 1/2	3600	184T	EM3219T-G	15	75	88.5	230/460	8.6	8, 30
	1800	213T	EM3311T-G	16.32	115	91	230/460	9.7	8, 30
	1200	254T	EM2506T-G	23.19	243	90.2	230/460	11	8, 30
10	3600	213T	EM3312T-G	16.32	113	89.5	230/460	12	8, 30
	1800	215T	EM3313T-G	17.45	127	91.7	230/460	12.5	8, 30
	1200	256T	EM2511T-G	23.19	255	91.7	230/460	14.3	8, 30
15	3600	215T	EM3314T-G	16.32	126	90.2	230/460	17.5	8, 30
	1800	254T	EM2513T-G	21.69	210	93	230/460	17.7	8, 30
	1200	284T	EM2524T-G	23.81	280	91.7	230/460	20.5	8, 30
20	3600	254T	EM2514T-G	21.69	195	91	230/460	23.5	8, 30
	1800	256T	EM2515T-G	21.69	227	93	230/460	23.5	8, 30
	1200	286T	EM2528T-G	23.81	299	92.4	230/460	27	8, 30
25	3600	256T	EM2516T-G	21.69	212	91.7	230/460	28	8, 30
	1800	284T	EM2531T-G	25.06	314	93.6	230/460	30	8, 30
	1200	324T	EM2532T-G	27.69	384	93	230/460	34	8, 30
30	3600	284TS	EM2534T-G	22.44	310	91.7	230/460	35	8, 30
	1800	286T	EM2535T-G	25.06	340	94.1	230/460	35	8, 30
	1200	326T	EM2536T-G	28.69	457	93.6	230/460	38	8, 30
40	3600	286TS	EM2538T-G	22.44	328	92.4	230/460	46	8, 30
	1800	324T	EM2539T-G	27.19	392	94.1	230/460	49	8, 30
	1200	364T	EM2540T-G	30.69	606	94.1	230/460	51	8, 30
50	3600	324TS	EM2542T-G	25.69	392	93	230/460	56	8, 30
	1800	326T	EM2543T-G	27.69	473	94.5	230/460	57	8, 30

(a) See notes on inside back flap.

Inverter-Duty®, three phase, ODP, foot mounted, with internal AEGIS® bearing protection ring

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
230/460 volt continued									
60	1800	364T	EM2547T-G	30.69	616	95	230/460	68	8, 30
75	1800	365T	EM2551T-G	33.72	750	95	230/460	87	8, 30
100	1800	404T	EM2555T-4G	36.97	898	95.4	460	115	8
200 volt									
1	1800	143T	EM3116T-8G	11.12	38	85.5	200	3.5	8
1 1/2	1800	145T	EM3154T-8G	11.62	37	86.5	200	5.1	8
2	1800	145T	EM3157T-8G	12.12	43	86.5	200	6.5	8
3	1800	182T	EM3211T-8G	15	74	89.5	200	9.7	8
5	1800	184T	EM3218T-8G	16.5	92	89.5	200	15.3	8
7 1/2	1800	213T	EM3311T-8G	16.32	120	91	200	22.2	8
10	1800	215T	EM3313T-8G	17.45	132	91.7	200	29.5	8
15	1800	254T	EM2513T-8G	21.69	234	93	200	40.7	8
20	1800	256T	EM2515T-8G	21.69	250	93	200	54.3	8
25	1800	284T	EM2531T-8G	25.06	330	93.6	200	70	8
30	1800	286T	EM2535T-8G	25.06	340	94.1	200	81	8
40	1800	324T	EM2539T-8G	27.19	390	94.1	200	109	8
575 volt									
1	1800	143T	EM3116T-5G	11.12	38	85.5	575	1.2	8
1 1/2	1800	145T	EM3154T-5G	11.62	37	86.5	575	1.8	8
2	1800	145T	EM3157T-5G	12.12	43	86.5	575	2.3	8
3	1800	182T	EM3211T-5G	15	74	89.5	575	3.4	8
5	1800	184T	EM3218T-5G	16.5	92	89.5	575	5.3	8
7 1/2	1800	213T	EM3311T-5G	16.32	114	91	575	7.8	8
10	1800	215T	EM3313T-5G	17.45	132	91.7	575	10	8
15	1800	254T	EM2513T-5G	21.69	210	93	575	14.1	8
20	1800	256T	EM2515T-5G	21.69	250	93	575	18.9	8
25	1800	284T	EM2531T-5G	25.06	328	93.6	575	24.5	8
30	1800	286T	EM2535T-5G	25.06	340	94.1	575	28	8
40	1800	324T	EM2539T-5G	27.19	400	94.1	575	40	8

(a) See notes on inside back flap.

EC Titanium™

three phase, totally enclosed 1 to 20 Hp

BALDOR · RELIANCE
SHAFT GROUNDING BRUSH
INSTALLED
LB1508

IP54

Features:

- IE5+ motor efficiency
- FASR - Ferrite Assisted Synchronous Reluctance Rotor
- Class F insulation with Class B motor temperature rise
- Internal grounding brush for bearing current mitigation
- For inverter use only per NEMA MG1 Part 31.4.4.2
- Designed for longevity with 3 year warranty

Applications:

- Fans
- Pumps
- Blowers
- Unit handling
- HVAC systems
- Variable speed applications
- General purpose applications
- Compressors

Foot Mount - Three Phase - Totally Enclosed Fan Cooled

HP	Base Speed RPM	C.H. Speed RPM	NEMA Frame	Enclosure	Catalog Number	"C" Dim	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
1	1800	4000	143T	TEFC	ECS101M0H1DF4	12.29	28	89.30%	230/460	2.3/1.2
2	1800	4000	143T	TEFC	ECS101M0H2DF4	12.29	35	90.70%	230/460	4.5/2.3
3	1800	4000	145T	TEFC	ECS101M0H3DF4	13.29	44	91.40%	230/460	7.0/3.5
3	1800	4000	182T	TEFC	ECS101M0H3EF4	16.54	59	92.80%	230/460	7.3/3.7
5	1800	4000	143T	TEFC	ECS101M0H5DF4	15.54	64	93.00%	230/460	10.4/5.2
5	1800	4000	182T	TEFC	ECS101M0H5EF4	16.54	68	93.70%	230/460	10.5/5.3
7.5	1800	4000	184T	TEFC	ECS101M0H7EF4	18.04	92	94.00%	230/460	17.5/8.8
7.5	1800	3000	213T	TEFC	ECS101M0H7FF4	17.89	105	94.00%	230/460	17.4/8.7
10	1800	3000	213T	TEFC	ECS101M0H10FF4	19.02	123	94.80%	230/460	22.0/11.0
15	1800	3000	215T	TEFC	ECS101M0H15FF4	21.96	168	95.60%	230/460	34.8/17.4
20	1800	3000	215T	TEFC	ECS101M4H20FF4	23.51	218	95.90%	460	21.6

C-Face Foot Mount - Three Phase - Totally Enclosed Fan Cooled

HP	Base Speed RPM	C.H. Speed RPM	NEMA Frame	Enclosure	Catalog Number	"C" Dim	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
1	1800	4000	143TC	TEFC	ECS101M0H1DB4	12.29	28	89.30%	230/460	2.3/1.2
2	1800	4000	143TC	TEFC	ECS101M0H2DB4	12.29	35	90.70%	230/460	4.5/2.3
3	1800	4000	145TC	TEFC	ECS101M0H3DB4	13.29	44	91.40%	230/460	7.0/3.5
3	1800	4000	182TC	TEFC	ECS101M0H3EB4	16.54	59	92.80%	230/460	7.3/3.7
5	1800	4000	143TC	TEFC	ECS101M0H5DB4	15.54	64	93.00%	230/460	10.4/5.2
5	1800	4000	182TC	TEFC	ECS101M0H5EB4	16.54	68	93.70%	230/460	10.5/5.3
7.5	1800	4000	184TC	TEFC	ECS101M0H7EB4	18.04	92	94.00%	230/460	17.5/8.8
7.5	1800	3000	213TC	TEFC	ECS101M0H7FB4	17.89	105	94.00%	230/460	17.4/8.7
10	1800	3000	213TC	TEFC	ECS101M0H10FB4	19.02	123	94.80%	230/460	22.0/11.0
15	1800	3000	215TC	TEFC	ECS101M0H15FB4	21.96	168	95.60%	230/460	34.8/17.4
20	1800	3000	215TC	TEFC	ECS101M4H20FB4	23.51	218	95.90%	460	21.6

C-Face Footless - Three Phase - Totally Enclosed Fan Cooled

HP	Base Speed RPM	C.H. Speed RPM	NEMA Frame	Enclosure	Catalog Number	"C" Dim	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps
1	1800	4000	143TC	TEFC	ECS101M0H1DC4	12.29	28	89.30%	230/460	2.3/1.2
2	1800	4000	143TC	TEFC	ECS101M0H2DC4	12.29	35	90.70%	230/460	4.5/2.3
3	1800	4000	145TC	TEFC	ECS101M0H3DC4	13.29	44	91.40%	230/460	7.0/3.5
3	1800	4000	182TC	TEFC	ECS101M0H3EC4	16.54	59	92.80%	230/460	7.3/3.7
5	1800	4000	143TC	TEFC	ECS101M0H5DC4	15.54	64	93.00%	230/460	10.4/5.2
5	1800	4000	182TC	TEFC	ECS101M0H5EC4	16.54	68	93.70%	230/460	10.5/5.3
7.5	1800	4000	184TC	TEFC	ECS101M0H7EC4	18.04	92	94.00%	230/460	17.5/8.8
7.5	1800	3000	213TC	TEFC	ECS101M0H7FC4	17.89	105	94.00%	230/460	17.4/8.7
10	1800	3000	213TC	TEFC	ECS101M0H10FC4	19.02	123	94.80%	230/460	22.0/11.0
15	1800	3000	215TC	TEFC	ECS101M0H15FC4	21.96	168	95.60%	230/460	34.8/17.4
20	1800	3000	215TC	TEFC	ECS101M4H20FC4	23.51	218	95.90%	460	21.6

General purpose HVAC

three phase, ODP, foot mounted 1 thru 100 Hp

IP22

Features:

- External provisions for bearing current mitigation
- Designed for longevity with 3 year warranty
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2

Applications:

- Fans
- Pumps
- Blowers
- Air handling
- HVAC systems
- Variable speed applications
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
230/460 volt									
1	1800	143T	EHM3116T	11.12	35	85.5	230/460	1.5	30
1 1/2	1800	145T	EHM3154T	11.62	37	86.5	230/460	2.2	30
2	1800	145T	EHM3157T	12.13	41	86.5	230/460	2.9	30
3	1800	182T	EHM3211T	15.00	72	89.5	230/460	4.2	30
	1200	213T	EHM3305T	16.32	114	88.5	230/460	4.5	30
5	1800	184T	EHM3218T	16.50	85	89.5	230/460	6.6	30
	1200	215T	EHM3309T	17.45	141	89.5	230/460	7.4	30
7 1/2	1800	213T	EHM3311T	16.32	115	91	230/460	9.7	30
	1200	254T	EHM2506T	23.19	248	90.2	230/460	11	30
10	1800	215T	EHM3313T	17.45	127	91.7	230/460	12.5	30
	1200	256T	EHM2511T	23.19	260	91.7	230/460	14.3	30
15	1800	254T	EHM2523T	21.69	212	93	230/460	17.7	30
	1200	284T	EHM2524T	23.81	285	91.7	230/460	20.5	30
20	1800	256T	EHM2515T	21.69	225	93	230/460	23.5	30
	1200	286T	EHM2528T	23.81	375	92.4	230/460	27	30
25	1800	284T	EHM2531T	25.06	345	93.6	230/460	30	30
	1200	324T	EHM2532T	27.69	393	93	230/460	34	30
30	1800	286T	EHM2535T	25.06	339	94.1	230/460	35	30
	1200	326T	EHM2536T	28.69	482	93.6	230/460	38	30
40	1800	324T	EHM2539T	27.19	433	94.1	230/460	49	30
50	1800	326T	EHM2543T	27.69	469	94.5	230/460	57	30
60	1800	364T	EHM2547T	29.94	582	95	230/460	68	30
75	1800	365T	EHM2551T	33.72	752	95	230/460	87	30
100	1800	404T	EHM2555T	36.97	911	95.4	230/460	113	30
230/460 volt, F2 mounting									
2	1800	145T	EHFM3157T	12.13	49	86.5	230/460	2.9	30
3	1800	182T	EHFM3211T	15.00	68	89.5	230/460	4.2	30
5	1800	184T	EHFM3218T	16.50	82	89.5	230/460	6.6	30
7 1/2	1800	213T	EHFM3311T	16.32	115	91	230/460	9.7	30
10	1800	215T	EHFM3313T	17.45	127	91.7	230/460	12.5	30
15	1800	254T	EHFM2523T	21.69	212	93	230/460	17.7	30
20	1800	256T	EHFM2515T	21.69	227	93	230/460	23.5	30
25	1800	284T	EHFM2531T	25.06	301	93.6	230/460	30	30
30	1800	286T	EHFM2535T	25.06	328	94.1	230/460	35	30
40	1800	324T	EHFM2539T	27.19	429	94.1	230/460	49	30
50	1800	326T	EHFM2543T	27.69	466	94.5	230/460	57	30

(a) See notes on inside back flap.

General purpose HVAC, three phase, ODP, foot mounted

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
200 volt									
1	1800	143T	EHM3116T-8	11.12	34	85.5	200	3.5	
1 1/2	1800	145T	EHM3154T-8	11.62	38	86.5	200	5.1	
2	1800	145T	EHM3157T-8	12.13	41	86.5	200	6.5	
3	1800	182T	EHM3211T-8	15.00	71	89.5	200	9.7	
5	1800	184T	EHM3218T-8	16.50	85	89.5	200	15.3	
7 1/2	1800	213T	EHM3311T-8	16.32	115	91	200	22.2	
10	1800	215T	EHM3313T-8	17.45	120	91.7	200	29.5	30
15	1800	254T	EHFM2523T-8	21.69	211	93	200	40.7	6, 30
	1800	254T	EHM2523T-8	21.69	210	93	200	40.7	30
20	1800	256T	EHM2515T-8	21.69	226	93	200	54.3	30
25	1800	284T	EHM2531T-8	25.06	369	93.6	200	70	
30	1800	286T	EHM2535T-8	25.06	331	94.1	200	81	
40	1800	324T	EHM2539T-8	26.69	434	94.1	200	108	
50	1800	326T	EHM2543T-8	27.69	459	94.5	200	132	

(a) See notes on inside back flap.

General purpose HVAC

three phase, TEFC, foot mounted 1 thru 50 Hp

IP44*

Features:

- External provisions for bearing current mitigation
- Designed for longevity with 3 year warranty
- Suitable for inverter use per NEMA MG1 Part 31.4.4.2

Applications:

- Fans
- Pumps
- Blowers
- Air handling
- HVAC systems
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
230/460 volt									
1	1800	143T	EHM3546T	12.31	37	85.5	230/460	1.5	1, 30
1 1/2	1800	145T	EHM3554T	13.29	44	86.5	230/460	2.2	1, 30
2	1800	145T	EHM3558T	13.29	46	86.5	230/460	2.9	1, 30
3	1800	182T	EHM3611T	16.54	73	89.5	230/460	4.2	1, 30
5	1800	184T	EHM3615T	18.04	93	89.5	230/460	6.7	1, 30
	1200	215T	EHM3708T	19.78	154	89.5	230/460	7.3	1, 30
7 1/2	1800	213T	EHM3710T	19.03	128	91.7	230/460	9.4	1, 30
	1200	254T	EHM2276T	23.28	294	91	230/460	11	1, 30
10	1800	215T	EHM3714T	20.53	165	91.7	230/460	12	1, 30
	1200	256T	EHM2332T	23.28	290	91	230/460	14.1	1, 30
15	1800	254T	EHM2333T	23.28	250	92.4	230/460	18.1	1, 30
	1200	284T	EHM4100T	27.76	400	91.7	230/460	21	1, 30
20	1800	256T	EHM2334T	23.28	288	93	230/460	24	1, 30
	1200	286T	EHM4102T	27.76	457	91.7	230/460	27	1, 30
25	1800	284T	EHM4103T	27.76	430	93.6	230/460	30	1, 30
	1200	324T	EHM4111T	30.39	465	93	230/460	32	1, 30
30	1800	286T	EHM4104T	27.76	423	93.6	230/460	38	1, 30
40	1800	324T	EHM4110T	30.28	612	94.1	230/460	48	1, 30
50	1800	326T	EHM4115T	30.28	622	94.5	230/460	58	1, 30
575 volt									
1	1800	143T	EHM3546T-5	12.31	37	85.5	575	1.2	1
1 1/2	1800	145T	EHM3554T-5	13.29	44	86.5	575	1.8	1
2	1800	145T	EHM3558T-5	13.29	47	86.5	575	2.3	1
3	1800	182T	EHM3611T-5	16.54	74	89.5	575	3.3	1
5	1800	184T	EHM3615T-5	18.04	92	89.5	575	5.3	1
7 1/2	1800	213T	EHM3710T-5	19.03	127	91.7	575	7.6	1
10	1800	215T	EHM3714T-5	20.53	165	91.7	575	9.6	1
15	1800	254T	EHM2333T-5	23.28	255	92.4	575	14.6	1
20	1800	256T	EHM2334T-5	23.28	286	93	575	19.2	1
25	1800	284T	EHM4103T-5	27.76	397	93.6	575	24	1
30	1800	286T	EHM4104T-5	27.76	395	93.6	575	29	1
40	1800	324T	EHM4110T-5	30.28	575	94.1	575	39	1
50	1800	326T	EHM4115T-5	30.28	622	94.5	575	50	1

(a) See notes on inside back flap.

* IP54 when Drain Fitting Kit #HA5027A03 is installed in the weep holes (48 thru 256T frame motors only)

Cast iron frame

Chiller/cooling tower

three phase, TEAO 5 thru 60 Hp

IP55

Features:

- Severe duty construction for harsh environments
- Corrosion resistant epoxy finish
- Multiple lifting provisions for ease of installation
- Strategically placed drains for optimal moisture removal
- Four barrier shaft sealing system on drive end
- Lipped conduit lid for increased ingress protection

Applications:

- Cooling towers
- Chillers
- Fans
- Pumps
- Air handling
- HVAC systems
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Airflow Ft/Min	Notes (a)
5	1800	213T	ECTM3611T-57	16.32	116	87.5	230/380-415	4.8	1200	
	1200	213T	ECTM3704T	17.45	140	89.5	230/460	4.6	1200	
5	1800	213T	ECTM3615T-57	17.45	134	88.5	230/380-415	7.4	1200	
	1800	184T	CTM3665T	13.68	100	87.5	208-230/460	6.9	1200	
	1800	184T	ECTM3665T	13.68	108	89.5	208-230/460	6.6	1200	
	1200	213T	ECTM3708T	18.95	185	89.5	230/460	7.2	1200	
	1200	215T	CTM3768T	19.54	206	87.5	208-230/460	7.5	1200	
	1200	215T	ECTM3768T	19.54	227	90.2	230/460	7.3	1200	30
7 1/2	1800	213T	CTM3770T	19.54	164	89.5	208-230/460	10.3	1500	
	1800	213T	ECTM3770T	19.54	170	91.7	208-230/460	9.5	1500	
	1200	254T	CTM2276T	22.16	179	89.5	208-230/460	10.9	1500	
	1200	254T	ECTM2276T	23.00	290	91	230/460	11	1500	30
10	1800	215T	CTM3774T	19.54	170	89.5	208-230/460	13	1500	
	1800	215T	ECTM3774T	19.54	231	91.7	208-230/460	12.2	1500	
	1200	256T	CTM2332T	23.00	275	89.5	230/460	14.4	1500	30
	1200	256T	ECTM2332T	23.00	297	91	230/460	14.4	1500	30
15	1800	254T	CTM2333T	22.16	236	91	208-230/460	18.5	1500	
	1800	254T	ECTM2333T	23.00	278	92.4	230/460	18.1	1500	30
	1200	284T	ECTM4100T	25.63	345	91.7	230/460	20	1500	30
20	1800	256T	CTM2334T	23.91	245	91	230/460	25	1500	30
	1800	256T	ECTM2334T	23.00	293	93	230/460	24	1500	30
25	1800	284T	CTM4103T	25.78	343	92.4	230/460	29	1500	30
	1800	284T	ECTM4103T	25.63	378	93.6	230/460	30	1500	30
30	1800	286T	CTM4104T	25.78	363	92.4	230/460	36	1500	30
	1800	286T	ECTM4104T	25.63	410	93.6	230/460	38	1500	30
40	1800	324T	CTM4110T	28.38	529	93	230/460	47	2000	30
	1800	324T	ECTM4110T	28.38	553	94.1	230/460	48	1500	30
50	1800	326T	ECTM4115T	28.38	598	94.5	230/460	58	2000	30
60	1800	364T	ECTM4314T	29.70	835	95	230/460	68	2000	30

(a) See notes on inside back flap.

Cast iron frame

Chiller/cooling tower

three phase, two speed, TEFC 10 thru 60 Hp

IP55

Features:

- Multi speed electrical design
- Severe duty construction for harsh environments
- Corrosion resistant epoxy finish
- Lead lugs for ease of connectivity

Applications:

- Cooling towers
- Chillers
- Fans
- Pumps
- Air handling
- HVAC systems
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency (b)	Voltage	Full Load Amps	Notes (a)
10/2.5	1800/900	215T	CTM1760T	19.32	210	89.5	460	14.3	
15/3.75	1800/900	254T	CTM1761T	24.78	290	90.2	460	18.1	
20/5	1800/900	256T	CTM1762T	24.78	299	91	460	23.6	
25/6.25	1800/900	284T	CTM1763T	27.93	342	91.7	460	32	
30/7.5	1800/900	286T	CTM1764T	27.93	333	91.7	460	36	
40/10	1800/900	324T	CTM1765T	30.28	619	92.4	460	48	
50/12.5	1800/900	326T	CTM1766T	30.28	657	90.2	460	63	
60/15	1800/900	364T	CTM1767T	33.44	836	93	460	69.6	

(a) See notes on inside back flap.
(b) Full load efficiency is at 1800 RPM and low speed efficiency is not published.

Cast iron frame

Definite purpose HVAC

Ventilation fan, three phase TEAO, C-Face, footless 1/2 thru 1 Hp

IP44*

Features:

- Terminal panel for ease of connectivity
- Lubed for life double sealed bearings
- Locked DE bearing to allow mounting in any configuration

Applications:

- Fans
- Pumps
- Blowers
- Condensers
- Air handling
- HVAC systems
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
1/2	900	56C	VAOM3560	12.68	50	64	208-230/460	1.6	
1	900	56C	VAOM3527	14.93	57	74	208-230/460	3.2	

(a) See notes on inside back flap.

* IP54 when Drain Fitting Kit #HA5027A03 is installed in the weep holes (48 thru 256T frame motors only)

Definite purpose HVAC

Three phase, TEAO, foot mounted 1/4 thru 10 Hp

IP44*

Features:

- 36” long leads for ease of connectivity
- Oversized ball bearings for large overhung load from shaft mounted fans
- Locked DE bearing to allow mounting in any configuration

Applications:

- Fans
- Pumps
- Blowers
- Condensers
- Air handling
- HVAC systems
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	“C” Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
1/4	1800	48	AOM3454	9.63	18	64	230/460	0.7	2, 20, 30
	1200	48	AOM3455	9.63	19	68	230/460	0.7	2, 20, 30
1/3	1800	48	AOM3458	9.63	18	68	230/460	0.9	2, 20, 30
	1200	56	AOM3535	10.25	22	70	208-230/460	0.9	2, 20
1/2	1800	56	AOM3538	10.25	25	70	208-230/460	1.1	2, 20
	1200	56	AOM3539	10.88	24	72	208-230/460	1.2	2, 20
3/4	1800	56	AOM3542	10.25	23	72	208-230/460	1.6	2, 20
	1200	56	AOM3543	11.75	31	77	208-230/460	1.5	2, 20
1	1800	143T	AOM3546T	11.81	33	75.5	208-230/460	1.8	2
	1200	145T	AOM3556T	11.12	35	78.5	208-230/460	1.9	2
	900	182T	AOM3617T	13.62	62	74	208-230/460	2.2	2
1 1/2	1800	145T	AOM3554T	11.12	34	81.5	208-230/460	2.3	2, 20
	1200	182T	AOM3607T	13.62	50	78.5	208-230/460	2.5	2, 20
2	1800	145T	AOM3558T	12.12	38	82.5	208-230/460	3	2, 20
	1200	184T	AOM3614T	15.00	63	81.5	208-230/460	3.4	2, 20
	900	213T	AOM3702T	16.32	97	82.5	208-230/460	3.5	2
3	1800	182T	AOM3611T	13.62	59	85.5	208-230/460	4.5	2, 20
	1200	213T	AOM3704T	16.32	92	84	208-230/460	4.8	2, 20
	900	215T	AOM3705T	17.44	113	86.5	208-230/460	5.2	2, 20
5	1800	184T	AOM3615T	15.00	71	87.5	208-230/460	6.8	1
	1200	215T	AOM3708T	16.32	115	86.5	208-230/460	7.6	2, 20
	900	254T	AOM25904T	19.63	208	82.5	230/460	8.9	1, 30
7 1/2	1800	213T	AOM3710T	16.32	106	87.5	208-230/460	10.9	1
10	1800	215T	AOM3714T	17.45	126	89.5	208-230/460	13.5	2, 20

(a) See notes on inside back flap.

* IP54 when Drain Fitting Kit #HA5027A03 is installed in the weep holes (48 thru 256T frame motors only)

Definite purpose HVAC

Condenser fan, three phase, ODP, “belly band” round body 1/2 thru 1 1/2 Hp

IP22

Features:

- 6” long shaft with flat and keyway
- Terminal panel for ease of connectivity
- Automatic thermal overload protection
- Lubed for life double shielded bearings

Applications:

- Fans
- Pumps
- Blowers
- Condensers
- Air handling
- HVAC systems
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	“C” Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
1/2	1200	48YZ	CFM3036A	14.29	25	72	208-230/460	1.2	2, 20
	1200	56YZ	CFM3136A	15.30	28	70	208-230/460	1.2	
3/4	1200	48YZ	CFM3046A	16.02	33	77	208-230/460	1.5	2, 20
	1200	56YZ	CFM3146A	15.55	33	75.5	208-230/460	1.4	
1	1200	56YZ	CFM3156A	16.55	38	75.5	208-230/460	1.8	
1 1/2	1200	56YZ	CFM3166A	17.43	48	76	208-230/460	2.5	

(a) See notes on inside back flap.

Definite purpose HVAC

Condenser fan, three phase, TEAO, “belly band” round body 1/2 Hp

IP44*

Features:

- Low temp grease for use in industrial freezers
- Terminal panel for ease of connectivity
- Automatic thermal overload protection
- Lubed for life double shielded bearings
- 60 and 50 Hz data included for connection at either frequency

Applications:

- Industrial freezers/ refrigeration
- Food processing plants
- Low temperature condensers

Hp	RPM	NEMA Frame	Catalog Number	“C” Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
1/2	1200	56	M3539-TP	11.68	29	70	208-230/460	1.2	

(a) See notes on inside back flap.

* IP54 when Drain Fitting Kit #HA5027A03 is installed in the weep holes (48 thru 256T frame motors only)

Definite purpose HVAC

Fan and blower, single and three phase, ODP, resilient base 1/4 thru 2 Hp

IP22

Features:

- Resilient cushion base for low noise and reduced vibration
- Terminal panel for ease of connectivity
- Automatic thermal overload protection
- Lubed for life double shielded bearings

Applications:

- Fans
- Pumps
- Blowers
- Condensers
- Air handling
- HVAC systems
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
Single phase									
1/4	1800	48	ERL1203A	10.34	20	68.5	115/230	1.3	13, 30, 96
1/3	1800	56	ERL1206A	10.96	24	72.4	115/230	1.7	13, 30, 96
1/2	3600	48	RL1209A	10.96	27	74	115/230	4.2	12, 30, 96
	1800	56	RL1304A	11.59	26	62	115/230	4.2	12, 30, 66, 96
	1800	56	RL1323A	10.97	24	62	115/230	4	2, 66
3/4	3600	56	ERL1306A	11.59	26	76.2	115/230	3.3	12, 30, 66, 96
	1800	56H	RL1307A	12.96	34	68	115/230	5.1	12, 30, 66, 96
	1800	56	RL1324A	12.47	31	71	115/230	5	2, 66
1	3600	56H	ERL1309A	11.42	36	82	115/230	3.9	12, 30, 66, 96
	1800	56H	RL1310A	12.04	34	68	115/230	6.5	12, 30, 66
1 1/2	3600	56H	ERL1313A	13.30	52	82	115/230	5.9	15, 30, 66
	1800	56H	ERL1319A	14.67	59	83.8	115/230	6.2	15, 66
Single phase, 277 volt									
1/3	1800	56	RL1301A277	10.97	23	60	277	2.5	13, 66
1/2	1800	56	RL1304A277	11.59	26	62	277	3.6	12, 66
3/4	1800	56H	RL1307A277	12.47	34	66	277	4.2	12, 66
1	1800	56H	RL1310A277	12.42	42	70	277	5.4	66
1 1/2	1800	56H	ERL1319A277	14.67	59	84	277	5.2	15, 66
Three phase									
1/4	1800	48	ERM3003	10.34	21	69.5	230/460	0.5	13, 15, 30
1/3	1800	48	ERM3007	10.34	24	73.4	230/460	0.7	13, 15, 30
	1800	56	ERM3104	10.97	24	73.4	230/460	0.7	13, 15, 30
1/2	3600	48	ERM3009	10.34	24	73.4	230/460	0.8	12, 15, 30
	1800	48	ERM3010	11.84	31	78.2	230/460	0.8	12, 15, 30
	1800	56	ERM3108	11.97	31	78.2	230/460	0.8	12, 15, 30
3/4	3600	56	ERM3111	10.97	24	76.8	230/460	1.2	12, 15, 30
	1800	56	ERM3112	11.42	38	84	208-230/460	1.3	12, 15
1	3600	56	ERM3115	12.47	27	77	230/460	1.6	12, 15, 30
	1800	56	ERM3116	11.42	37	83.5	230/460	1.45	15, 30
1 1/2	3600	56H	ERM3120	11.42	34	84	208-230/460	2	15
	1800	56H	ERM3154	12.42	41	86.5	208-230/460	2.2	15
2	3600	56H	ERM3155	12.42	43	85.5	230/460	2.6	15
	1800	56H	ERM3157	12.42	43	86.5	208-230/460	2.9	15

(a) See notes on inside back flap.

Definite purpose HVAC

Three phase, ODP 1/3 thru 5 Hp

IP22

Features:
- Terminal panel for ease of connectivity
- Automatic thermal overload protection
- Lubed for life double shielded bearings

Applications:
- Fans
- Pumps
- Blowers
- Condensers
- Air handling
- HVAC systems
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
Foot mounted									
5	1800	184T	EHM3218TA	16.50	84	89.5	230/460	6.6	11, 30
Resilient base									
1/3	1800	48	RM3007A	10.34	21	68	230/460	0.8	12, 30
1/2	1800	56H	RM3108A	10.97	25	72	230/460	0.9	12, 30, 36
3/4	1800	56H	RM3112A	11.59	32	74	230/460	1.5	12, 30, 36, 96
1	1800	56H	RM3116A	12.47	32	78.5	230/460	2	30, 36, 96
1 1/2	1800	56H	RM3154A	12.04	34	78.5	208-230/460	2.4	36
2	1800	56H	RM3157A	12.42	40	81.5	208-230/460	2.9	36
3	3600	145TY	ERM3158TA	13.64	48	85.5	230/460	3.8	30
5	3600	145TY	ERHM3162TA	15.02	60	86.5	230/460	6.1	30

(a) See notes on inside back flap.

Definite purpose HVAC

(PSC) – direct drive fan, single phase, foot mounted, TEAO 1/4 thru 1/2 Hp

IP44*

Features:
- 1" extended through bolts for grille mounting
- Terminal panel for ease of connectivity
- Automatic thermal overload protection
- Lubed for life double shielded bearings
- Switchless design for increased reliability

Applications:
- Fans
- Pumps
- Blowers
- Condensers
- Air handling
- HVAC systems
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
1/4	1800	48Z	PSC3413A	11.34	19	65.5	115/230	1.3	2, 29
1/3	1800	48Z	PSC3416A	11.34	21	62	115/230	1.8	2, 29
1/2	1800	48Z	PSC3524A	11.96	24	65	115/230	3	2, 29

(a) See notes on inside back flap.
* IP54 when Drain Fitting Kit #HA5027A03 is installed in the weep holes (48 thru 256T frame motors only)

Definite purpose HVAC

Direct drive fan, single and three phase, TEAO 1/4 thru 1 Hp

IP54

Features:

- Resilient cushion base for low noise and reduced vibration
- 1” extended through bolts for grille mounting
- Terminal panel for ease of connectivity
- Automatic thermal overload protection
- Lubed for life double shielded bearings

Applications:

- Fans
- Pumps
- Blowers
- Condensers
- Air handling
- HVAC systems
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	“C” Dim.	Aprx. Wt. (lb)	Voltage	Full Load Amps	S.F.	Notes (a)
Single phase, permanent split capacitor									
1/4	1800	48Z	CHC144A	11.35	21	115/230	1.4	1	30
	1200	48Z	CHC164A	11.35	22	115/230	1.5	1.15	30
1/3	1800	48Z	CHC244A	11.35	22	115/230	1.7	1.15	30
	1200	48Z	CHC264A	11.35	26	115/230	1.8	1.15	30
1/2	1800	56YZ	CHC345A	12.70	27	115/230	2.6	1.15	30
	1200	56YZ	CHC365A	13.58	31	115/230	3.2	1.15	30
3/4	1800	56YZ	CHC445A	13.58	35	115/230	3.7	1.15	
1	1800	56	CHC545A	13.04	39	115/230	4.9	1	
	1200	56	CHC565A	13.92	51	115/230	5.3	1	20
Three phase									
1/4	1200	48YZ	CHM164A	11.34	20	230/460	0.7	1.25	30, 96
1/3	1200	48YZ	CHM264A	11.34	19	230/460	0.9	1.25	30
1/2	1800	48YZ	CHM344A	11.34	23	230/460	1.1	1.25	30
	1800	56YZ	CHM345A	12.08	24	230/460	1.1	1.25	30
	1200	48YZ	CHM364A	11.96	25	230/460	1.2	1.25	30
	1200	56YZ	CHM365A	12.70	28	230/460	1.2	1.25	30
3/4	1200	56YZ	CHM465A	13.58	34	208-230/460	1.5	1.15	
1	1800	56YZ	CHM545A	13.58	34	208-230/460	1.7	1.15	
	1200	56	CHM565A	13.04	40	208-230/460	1.8	1.15	

(a) See notes on inside back flap.

Definite purpose HVAC

Yoke/pedestal fan, single phase, PSC, TEAO 1/4 thru 1/2 Hp

IP54

Features:

- Robust stamped steel pedestal mount
- 1” extended through bolts for grille mounting
- Terminal panel for ease of connectivity
- Automatic thermal overload protection
- Lubed for life double shielded bearings
- Switchless design for increased reliability

Applications:

- Fans
- Pumps
- Blowers
- Condensers
- Air handling
- HVAC systems
- General purpose applications

Hp	RPM	NEMA Frame	Catalog Number	“C” Dim.	Aprx. Wt. (lb)	Voltage	Full Load Amps	S.F.	Notes (a)
1/4	1800	48YZ	YPC144A	10.68	18	115	2.5	1	
	1200	48YZ	YPC164A	10.68	22	115	2.8	1	
1/3	1800	48YZ	YPC244A	10.68	21	115	3.4	1	
	1800	56YZ	YPC245A	10.68	21	115	3.4	1	
	1200	48YZ	YPC264A	10.68	22	115	3.5	1	
1/2	1800	48YZ	YPC344A	10.68	22	115	5.1	1	
	1800	56YZ	YPC345A	10.68	24	115	5.1	1	
	1200	48YZ	YPC364A	11.31	27	115	5.4	1	

(a) See notes on inside back flap.

Pump motors

Baldor-Reliance® pump motors provide value by increasing reliability and reducing maintenance costs. Utilizing energy efficient designs, our pump motors meet NEMA Premium® efficiency and inverter ready with wide variable torque speed ranges.

Key features:

- Baldor-Reliance motors meet or exceed all efficiency requirements for US, Canada and Mexico regulations
- Dynamically balanced rotor to reduce noise and increase bearing life
- Color coded and numbered leads for ease of connectivity

Pump motor

Fire pump three phase, ODP, foot mounted 10 thru 300 Hp

IP23

Features:

- 1.15 SF, 40°C ambient continuous
- NEMA Design B, 60 Hz
- 230/460 and 460 Volt models rated for 50 Hz at next lower Hp
- Dual voltage motors 20 Hp and larger have 12 leads, are suitable for wye-delta or across the line start on either voltage or part winding start on low voltage
- 460V motors have 12 leads and are suitable for wye-delta, across the line or part winding start
- UL file E481231
- Exterior red paint RAL3002

Applications:

- UL listed Fire Pump motors installed per NFPA-20

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
10	3600	213T	FPM3312T	16.32	121	88.5	230/460	12	1
	1800	215T	FPM3313T	16.32	130	89.5	230/460	12.7	1
15	3600	215T	FPM3314T	16.32	131	89.5	230/460	17.7	1
	1800	254T	FPM2513T	21.69	205	91	230/460	17.5	1
20	3600	254T	FPM2514T	22.25	145	90.2	230/460	23	1
	1800	256T	FPM2515T	21.69	210	91	230/460	24	1
25	3600	256T	FPM2516T	21.69	210	91	230/460	29	1
		256T	FPM2516T-2/4	21.69	206	91	230/460	34	1, 33
	1800	284TS	FPM2531TS	23.56	236	92.4	230/460	29	1
		284TS	FPM2531TS-2/4	23.56	236	92.4	230/460	34	1, 33
30	3600	284TS	FPM2534T	22.06	235	91	230/460	35	1
		284TS	FPM2534T-2/4	22.06	235	91	230/460	40	1, 33
	1800	286TS	FPM2535TS	22.06	334	92.4	230/460	36	1
		286TS	FPM2535TS-2/4	23.69	375	92.4	230/460	41	1, 33
40	3600	286TS	FPM2538T	23.69	280	91.7	230/460	45	1
		286TS	FPM2538T-2/4	23.56	254	91.7	230/460	52	1, 33
	1800	324TS	FPM2539TS	24.69	400	93	230/460	49	1
		324TS	FPM2539TS-2/4	24.69	380	93	230/460	56	1, 33
50	3600	324TS	FPM2542T	24.69	331	92.4	230/460	58	1
		324TS	FPM2542T-2/4	24.69	331	92.4	230/460	67	1, 33
	1800	326TS	FPM2543TS	25.69	385	93	230/460	60	1
		326TS	FPM2543TS-2/4	25.69	385	93	230/460	70	1, 33
60	3600	326TS	FPM2546T	25.69	385	93	230/460	68	1
		326TS	FPM2546T-2/4	25.69	385	93	230/460	78	1, 33
	1800	364TS	FPM2547TS	25.81	480	93.6	230/460	72	1
		364TS	FPM2547TS-2/4	27.94	480	93.6	230/460	83	1, 33
75	3600	364TS	FPM2549T	27.94	485	93	230/460	84	1
		364TS	FPM2549T-2/4	27.94	485	93	230/460	96	1, 33
	1800	365TS	FPM2551TS	29.94	570	94.1	230/460	87	1
		365TS	FPM2551TS-2/4	29.94	570	94.1	230/460	100	1, 33
100	3600	365TS	FPM2550T	28.98	533	93	230/460	113	1
		365TS	FPM2550T-2/4	28.94	533	93	230/460	130	1, 33
	1800	404TS	FPM2555TS	31.85	597	94.1	230/460	117	1
		404TS	FPM2555TS-2/4	31.85	597	94.1	230/460	135	1, 33
125	3600	404TS	FPM2554T-4	31.85	660	93.6	460	138	1
	1800	405TS	FPM2559TS-4	33.60	590	94.5	460	145	1
150	3600	405TS	FPM2556T-4	31.85	600	93.6	460	164	1
	1800	444TS	FPM2558TS-4	35.88	1579	95	460	167	
200	3600	444TS	FPM2562T-4	35.88	1449	94.5	460	232	
	1800	445TS	FPM2563TS-4	35.88	1718	95	460	224	
250	3600	445TS	FPM2565T-4	35.88	1737	94.5	460	288	
	1800	445TS	FPM2566TS-4	35.88	1844	95.4	460	272	
300	3600	445TS	FPM2568T-4	35.88	1697	95	460	339	

(a) See notes on inside back flap.

Cast iron frame

Fire pump, three phase, ODP, foot mounted

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
575 volt									
20	3600	254T	FPM2514T-5	22.25	145	90.2	575	18.5	
	1800	256T	FPM2515T-5	21.69	231	91.0	575	19.6	
25	3600	256T	FPM2516T-5	21.69	223	91.0	575	23	
	1800	284TS	FPM2531TS-5	23.56	320	92.4	575	23	
30	3600	284TS	FPM2534T-5	22.06	240	91.0	575	28	
	1800	286TS	FPM2535TS-5	23.69	420	92.4	575	29	
40	3600	286TS	FPM2538T-5	23.56	287	91.7	575	36	
	1800	324TS	FPM2539TS-5	24.69	400	93.0	575	39	
50	3600	324TS	FPM2542T-5	24.69	449	92.4	575	46	
	1800	326TS	FPM2543TS-5	25.69	452	93.0	575	49	
60	3600	326TS	FPM2546T-5	25.69	449	93.0	575	54	
	1800	364TS	FPM2547TS-5	25.81	480	93.6	575	57	
75	3600	364TS	FPM2549T-5	25.81	480	93.0	575	67	
	1800	365TS	FPM2551TS-5	27.81	573	94.1	575	69	
100	3600	365TS	FPM2550T-5	26.81	525	93.0	575	90	
	1800	404TS	FPM2555TS-5	31.85	648	94.1	575	93	

(A) See notes on inside back flap

Pump motor

Fire pump, three phase, ODP, footless, close-coupled pump 10 thru 100 Hp

IP23

Features:

- 1.15 SF, 40°C ambient continuous
- NEMA Design B, 60 Hz
- 230/460 Volt models rated for 50 Hz at next lower Hp
- Dual voltage motors 20 Hp and larger have 12 leads, are suitable for wye-delta or across the line start on either voltage or part winding start on low voltage
- Vertical lifting
- UL file E481231
- Exterior red paint RAL3002

Applications:

- UL listed Fire Pump motors installed per NFPA-20

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
10	3600	213T	FPM3312T	16.32	121	88.5	230/460	12	1
	1800	215T	FPM3313T	16.32	130	89.5	230/460	12.7	1
15	3600	215T	FPM3314T	16.32	131	89.5	230/460	17.7	1
	1800	254T	FPM2513T	21.69	205	91	230/460	17.5	1
20	3600	254T	FPM2514T	22.25	145	90.2	230/460	23	1
	1800	256T	FPM2515T	21.69	210	91	230/460	24	1
25	3600	256T	FPM2516T	21.69	210	91	230/460	29	1
		256T	FPM2516T-2/4	21.69	206	91	230/460	34	1, 33
	1800	284TS	FPM2531TS	23.56	236	92.4	230/460	29	1
		284TS	FPM2531TS-2/4	23.56	236	92.4	230/460	34	1, 33
30	3600	284TS	FPM2534T	22.06	235	91	230/460	35	1
		284TS	FPM2534T-2/4	22.06	235	91	230/460	40	1, 33
	1800	286TS	FPM2535TS	22.06	334	92.4	230/460	36	1
		286TS	FPM2535TS-2/4	23.69	375	92.4	230/460	41	1, 33
40	3600	286TS	FPM2538T	23.69	280	91.7	230/460	45	1
		286TS	FPM2538T-2/4	23.56	254	91.7	230/460	52	1, 33
	1800	324TS	FPM2539TS	24.69	400	93	230/460	49	1
		324TS	FPM2539TS-2/4	24.69	380	93	230/460	56	1, 33
50	3600	324TS	FPM2542T	24.69	331	92.4	230/460	58	1
		324TS	FPM2542T-2/4	24.69	331	92.4	230/460	67	1, 33
	1800	326TS	FPM2543TS	25.69	385	93	230/460	60	1
		326TS	FPM2543TS-2/4	25.69	385	93	230/460	70	1, 33
60	3600	326TS	FPM2546T	25.69	385	93	230/460	68	1
		326TS	FPM2546T-2/4	25.69	385	93	230/460	78	1, 33
	1800	364TS	FPM2547TS	25.81	480	93.6	230/460	72	1
		364TS	FPM2547TS-2/4	27.94	480	93.6	230/460	83	1, 33
75	3600	364TS	FPM2549T	27.94	485	93	230/460	84	1
		364TS	FPM2549T-2/4	27.94	485	93	230/460	96	1, 33
	1800	365TS	FPM2551TS	29.94	570	94.1	230/460	87	1
		365TS	FPM2551TS-2/4	29.94	570	94.1	230/460	100	1, 33
100	3600	365TS	FPM2550T	28.98	533	93	230/460	113	1
		365TS	FPM2550T-2/4	28.94	533	93	230/460	130	1, 33
	1800	404TS	FPM2555TS	31.85	597	94.1	230/460	117	1
		404TS	FPM2555TS-2/4	31.85	597	94.1	230/460	135	1, 33
125	3600	404TS	FPM2554T-4	31.85	660	93.6	460	138	1
	1800	405TS	FPM2559TS-4	33.60	590	94.5	460	145	1
150	3600	405TS	FPM2556T-4	31.85	600	93.6	460	164	1
	1800	444TS	FPM2558TS-4	35.88	1579	95	460	167	
200	3600	444TS	FPM2562T-4	35.88	1449	94.5	460	232	
	1800	445TS	FPM2563TS-4	35.88	1718	95	460	224	
250	3600	445TS	FPM2565T-4	35.88	1737	94.5	460	288	
	1800	445TS	FPM2566TS-4	35.88	1844	95.4	460	272	
300	3600	445TS	FPM2568T-4	35.88	1697	95	460	339	

(a) See notes on inside back flap.

Cast iron frame

Fire pump, three phase, ODP, footless, close-coupled pump

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
575 volt									
20	3600	254JP	VJPFPM2514T-5	27.66	145	90.2	575	18.5	
	1800	256JP	VJPFPM2515T-5	28.07	208	91.0	575	19.6	
25	3600	256JP	VJPFPM2516T-5	28.07	219	91.0	575	23	
	1800	284JP	VJPFPM2531T-5	31.44	322	92.4	575	23	
30	3600	284JP	VJPFPM2534T-5	29.23	266	91.0	575	28	
	1800	286JP	VJPFPM2535T-5	29.25	396	92.4	575	29	
40	3600	286JP	VJPFPM2538T-5	31.44	303	91.7	575	36	
	1800	324JP	VJPFPM2539T-5	31.13	530	93.0	575	39	
50	3600	324JP	VJPFPM2542T-5	31.13	396	92.4	575	46	
	1800	326JP	VJPFPM2543T-5	32.13	396	93.0	575	49	
60	3600	326JP	VJPFPM2546T-5	32.13	380	93.0	575	54	
	1800	364JP	VJPFPM2547T-5	32.50	475	93.6	575	57	
75	3600	364JP	VJPFPM2549T-5	32.50	648	93.0	575	67	
	1800	365JP	VJPFPM2551T-5	34.50	565	94.1	575	69	
100	3600	365JP	VJPFPM2550T-5	34.50	523	93.0	575	90	

(A) See notes on inside back flap

Pump motor

Jet pump, single phase, TEFC 1/3 thru 2 Hp

IP44

Features:

- Automatic thermal overload protection
- Corrosion resistant stainless steel shaft extension
- Slotted opposite DE shaft for easy installation
- Superior switch design provides optimized torque profiles
- Dynamically balanced rotor to reduce noise and increase bearing life

Applications:

- HVAC pumps
- Swimming pool pumps
- General purpose pumps

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
Foot mounted									
1/3	1800	56J	CJL3501A	11.84	23	60	115/230	3	30
1/2	1800	56J	CJL3504A	12.47	28	68	115/230	3.7	30
3/4	1800	56J	CJL3507A	12.97	35	74	115/230	4.1	30
1	3600	56J	CJL3509A	13.74	39	66	115/230	6	30
1 1/2	3600	56J	CJL3513A	13.74	47	70	115/230	8.3	30
2	3600	56J	CJL3515A	14.62	51	74	115/230	11.5	30
Footless									
1/3	3600	56J	JL3405A	11.85	19	60	115/230	3	30
	1800	56J	JL3501A	11.85	22	60	115/230	3	30
1/2	3600	56J	JL3503A	12.85	26	62	115/230	3.7	30
	1800	56J	JL3504A	12.85	27	68	115/230	3.7	30
3/4	3600	56J	JL3506A	12.85	29	66	115/230	5.4	30
	1800	56J	JL3507A	12.97	33	74	115/230	4.1	30
1	3600	56J	JL3509A	13.74	42	66	115/230	6	30
	1800	56J	JL3510A	13.74	40	67	115/230	6.2	30
1 1/2	3600	56J	JL3513A	13.74	45	70	115/230	8.3	30
	1800	56J	JL3514A	14.62	51	75.5	115/230	8	30
2	3600	56J	JL3515A	14.62	54	74	115/230	11.5	30
	1800	56J	JL3516A	14.62	52	78	115/230	8.6	20, 30

(a) See notes on inside back flap.
All threaded shaft, single phase motors are connected single rotation - CCW when viewing drive end.
All above ratings can be UL 1081 compliant through MOD Express®.
See M30A in the MOD Express program section of this catalog for more details.

Pump Motor

Jet pump, single phase, ODP 1/3 thru 3 Hp

IP23

Features:

- Automatic thermal overload protection
- Corrosion resistant stainless steel shaft extension
- Slotted opposite DE shaft for easy installation
- Superior switch design provides optimized torque profiles
- Optimized airflow design providing higher horsepower in a smaller package

Applications:

- HVAC pumps
- Swimming pool pumps
- General purpose pumps

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
Foot mounted									
1/3	3600	56J	CJL1205A	11.91	23	58	115/230	3.1	
	1800	56J	CJL1301A	11.89	23	60	115/208-230	3	30
1/2	3600	56J	CJL1303A	12.51	30	66	115/230	3.7	
	1800	56J	CJL1304A	12.14	25	62	115/230	4.2	30
3/4	3600	56J	CJL1306A	13.39	30	69	115/230	5.5	
	1800	56J	CJL1307A	12.25	35	63	115/230	5.4	
1	3600	56J	CJL1309A	13.89	32	65	115/208-230	7	30
1 1/2	3600	56J	CJL1313A	13.89	37	78.5	115/230	6.5	
2	3600	56J	CJL1317A	13.25	45	70	115/230	13	30
Footless									
1/3	3600	56J	JL1205A	11.89	25	58	115/230	3.1	
	1800	56J	JL1301A	11.89	23	60	115/230	3	30
1/2	3600	56J	JL1303A	12.51	26	66	115/230	3.7	
	1800	56J	JL1304A	12.14	25	62	115/230	4.2	30
3/4	3600	56J	JL1306A	13.39	33	69	115/230	5.5	
	1800	56J	JL1307A	13.89	33	68	115/230	5.1	30
1	3600	56J	JL1309A	13.89	32	65	115/230	7	30
1 1/2	3600	56J	JL1313A	13.89	36	78.5	115/230	6.5	
2	3600	56J	JL1317A	13.25	45	70	115/230	13	30
3	3600	56J	JL1323A	14.13	52	82.5	230	13	30

(a) See notes on inside back flap.
All threaded shaft, single phase motors are connected single rotation - CCW when viewing drive end.
All above ratings can be UL 1081 compliant through MOD Express®.
See M30A in the MOD Express program section of this catalog for more details.

Pump motor

Jet pump, three phase, TEFC 1/3 thru 3 Hp

IP44

Features:
- Corrosion resistant stainless steel shaft extension
- Slotted opposite DE shaft for easy installation
- Dynamically balanced rotor to reduce noise and increase bearing life

Applications:
- HVAC pumps
- Swimming pool pumps
- General purpose pumps

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
Footless									
1/3	3600	56J	JM3457	11.84	19	62	230/460	0.8	30
	1800	56J	JM3458	11.84	21	68	230/460	0.8	30
1/2	3600	56J	JM3460	11.84	21	70	230/460	1.2	30
	1800	56J	JM3461	11.84	23	74	230/460	1	30
3/4	3600	56J	JM3463	11.84	23	74	208-230/460	1.5	
	1800	56J	JM3542	11.84	26	75.5	208-230/460	1.5	
1	3600	56J	EJM3545	12.47	27	77	230/460	1.6	30
	1800	56J	EJM3546	13.74	37	85.5	230/460	1.7	30
1 1/2	3600	56J	EJM3550	12.72	38	84	230/460	1.9	30
	1800	56J	EJM3554	13.74	41	86.5	230/460	2.3	1, 30
2	3600	56J	EJM3555	13.74	41	85.5	230/460	2.5	30
	1800	56J	EJM3558	14.62	48	86.5	230/460	2.9	1, 30
3	3600	56J	EJM3559	14.62	50	86.5	230/460	3.6	1, 30
Foot mounted									
1/2	1800	56J	CJM3538	11.84	23	74	230/460	1	30
3/4	1800	56J	CJM3542	11.84	25	75.5	208-230/460	1.5	
575 volts									
1/2	3600	56J	JM3460-5	11.84	21	68	575	1	
3/4	3600	56J	JM3463-5	11.84	23	74	575	1.2	
1	3600	56J	EJM3545-5	12.47	27	77	575	1.2	
2	3600	56J	EJM3555-5	13.74	41	85.5	575	2	
3	3600	56J	EJM3559-5	14.62	50	86.5	575	2.9	

(a) See notes on inside back flap.
All above ratings can be UL 1081 compliant through MOD Express®.
See M30A in the MOD Express program section of this catalog for more details.

Pump motor

Jet pump, three phase, ODP 1/3 thru 3 Hp

IP23

Features:
- Corrosion resistant stainless steel shaft extension
- Slotted opposite DE shaft for easy installation
- Dynamically balanced rotor to reduce noise and increase bearing life
- Optimized airflow design providing higher horsepower in a smaller package

Applications:
- HVAC pumps
- Swimming pool pumps
- General purpose pumps

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
Footless									
1/3	3600	56J	JM3006	11.72	19	62	230/460	0.8	30
1/2	3600	56J	JM3107	11.72	21	70	230/460	1.2	30
	1800	56J	JM3108	11.85	23	74	230/460	1	30
3/4	3600	56J	JM3111	11.72	23	74	208-230/460	1.5	
	1800	56J	JM3112	12.34	27	75.5	208-230/460	1.5	
1	3600	56J	JM3115	12.34	32	77	230/460	1.6	30
	1800	56J	JM3116	13.22	30	78.5	208-230/460	1.7	1
1 1/2	3600	56J	JM3120	13.22	30	74	230/460	2.2	30
	1800	56J	JM3154	13.72	34	77	208-230/460	2.8	
2	3600	56J	JM3155	13.72	35	82.5	230/460	2.7	30
3	3600	56J	JM3158	13.72	42	80	208-230/460	4	
Foot mounted									
1/3	1800	56J	CJM3104	11.85	22	68	230/460	0.8	30
1/2	3600	56J	CJM3107	11.72	22	70	230/460	1.2	30
	1800	56J	CJM3108	11.72	24	74	230/460	1	30
3/4	3600	56J	CJM3111	11.72	28	74	208-230/460	1.5	
	1800	56J	CJM3112	12.34	27	75.5	208-230/460	1.5	
1	3600	56J	CJM3115	12.34	29	77	230/460	1.6	30
1 1/2	3600	56J	CJM3120	13.22	31	81.5	230/460	2	30
2	3600	56J	CJM3155	13.72	34	82.5	230/460	2.7	30
3	3600	56J	CJM3158	13.74	41	80	208-230/460	4	

(a) See notes on inside back flap.
All above ratings can be UL 1081 compliant through MOD Express®.
See M30A in the MOD Express program section of this catalog for more details.

Pump motor

Washdown, jet pump, three phase, TEFC, C-Face 3/4 thru 3 Hp

IP55

Features:

- 300 series stainless steel hardware and shaft extension
- Footless
- Neoprene gaskets
- Double sealed ball bearings
- Lip and V-Ring seal on DE
- White epoxy, corrosion resistant finish
- Easy removable drain plugs

Applications:

- Wet environment
- Pumps and wastewater

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
Footless									
3/4	3600	56J	JWDM3463	12.72	33	68	208-230/460	1.4	1, 30
1	3600	56J	JEWDM3545	12.72	38	78.5	208-230/460	1.6	1, 30
1 1/2	3600	56J	JEWDM3550	13.72	41	84	208-230/460	2	1, 30
2	3600	56J	JEWDM3555	13.72	41	85.5	230/460	2.5	1, 30
3	3600	56J	JEWDM3559	15.97	64	87.5	208-230/460	3.5	1, 30
Foot mounted									
3/4	3600	56J	CJWDM3463	12.72	33	68	208-230/460	1.4	1, 30
1	3600	56J	CJEWDM3545	12.72	38	78.5	208-230/460	1.6	1, 30
1 1/2	3600	56J	CJEWDM3550	13.72	41	84	208-230/460	2	1, 30
2	3600	56J	CJEWDM3555	13.72	41	85.5	230/460	2.5	1, 30
3	3600	56J	CJEWDM3559	15.98	64	87.5	208-230/460	3.5	1, 30

(a) See notes on inside back flap.

Pump motor

Square flange pump, ODP 1/2 thru 2 Hp

IP23

Features:
- Corrosion resistant stainless steel shaft extension
- Dynamically balanced rotor to reduce noise and increase bearing life
- Heavy gauge steel design
- Safeguard drip cover

Applications:
- HVAC pumps
- General purpose pumps

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
Single phase									
1/2	3600	56Y	JSL325A	11.35	24	70	115/230	3.3	30
3/4	3600	56Y	JSL425A	11.97	26	62	115/230	5.1	30
1	3600	56Y	JSL525A	12.72	30	70	115/230	6.3	30
1 1/2	3600	56YZ	JSL625A	14.44	42	72	115/230	9	30
2	3600	56YZ	JSL725A	14.44	47	74	115/230	11	30
Three phase									
1/2	3600	56YZ	JSM3107	11.40	21	70	230/460	1.2	30
3/4	3600	56YZ	JSM3111	11.40	24	74	208-230/460	1.5	
1	3600	56YZ	JSM3115	12.02	27	77	230/460	1.6	30
1 1/2	3600	56YZ	JSM3120	12.77	31	81.5	230/460	2	30
2	3600	56YZ	JSM3155	13.40	35	82.5	230/460	2.7	30

(a) See notes on inside back flap.

Pump motor

Close-coupled pump, single phase 3 thru 10 Hp

TEFC IP44 | ODP IP23

Features:

- Oversize ball bearings for the pump industry
- Locked DE bearing to allow mounting in any configuration Lip and V-Ring seal on DE
- Dynamically balanced rotor to reduce noise and increase bearing life
- Superior switch design provides
- Optimized torque profiles

Applications:

- HVAC pumps
- General purpose pump

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
Totally enclosed fan cooled, mechanical seal, Type JM									
3	3600	182JM	JML3606T	18.06	79	76	115/230	14.5	1, 30
5	3600	184JM	JML3608T	19.55	93	83	230	19.5	2, 20
Totally enclosed fan cooled, mechanical seal, Type JM									
3	3600	182JM	JML1406T	16.50	69	78	115/208-230	14	
	1800	184JM	JML1408T	16.50	80	78	115/230	16	30
5	3600	184JM	JML1409T	16.50	81	80	230	21.5	1, 30
	1800	213JM	JML1508T	18.19	115	77	230	27	
7 1/2	3600	213JM	JML1509T	18.19	116	81	230	37	30
	1800	215JM	JML1510T	19.31	142	85.5	230	31	30
10	3600	215JM	JML1511T	19.31	141	83	230	46	20, 30
	1800	215JM	JML1512T	20.95	150	84	230	41	20, 30
Open drip proof, packed pump, Type JP									
3	3600	182JP	JPL1406T	19.57	76	78	115/230	14	30
	1800	184JP	JPL1408T	19.57	87	78	115/230	16	30
5	3600	184JP	JPL1409T	19.57	88	80	230	21.5	1, 30
	1800	213JP	JPL1508T	22.07	117	77	230	27	
7 1/2	3600	213JP	JPL1509T	22.07	121	81	230	37	30
	1800	215JP	JPL1510T	23.19	143	85.5	230	31	30
10	3600	215JP	JPL1511T	23.19	148	83	230	46	20, 30
	1800	215JP	JPL1512T	20.95	142	84	230	41	20, 30
Open drip proof, west coast fit, Type TCZ									
3	3600	182TCZ	WCL1406T	19.69	81	78	115/230	14	30
	1800	184TCZ	WCL1408T	19.69	91	78	115/230	16	30
5	3600	184TCZ	WCL1409T	19.69	91	75	230	23	1, 30
	1800	213TCZ	WCL1508T	21.25	116	77	230	27	
7 1/2	3600	213TCZ	WCL1509T	21.25	117	81	230	37	30
10	3600	215TCZ	WCL1511T	22.38	143	83	230	46	20, 30

(a) See notes on inside back flap.

Pump motor

Close-coupled pump, three phase, foot mounted with internal AEGIS® bearing protection ring 1 thru 50 Hp

TEFC IP44 ODP IP23

AEGIS INSTALLED

Features:

- Internal grounding brush for bearing current mitigation on DE retainer ring
- Class H insulation for increased protection on Inverter use
- Oversize ball bearings for the pump industry
- Locked DE bearing to allow mounting in any configuration
- Designed for longevity with a 3 year warranty on premium efficient Super-E® motors
- Suitable for Inverter use per NEMA MG1 Part 31.4.4.2

Applications:

- HVAC pumps
- General purpose pumps

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
Totally enclosed fan cooled									
1	1800	143JM	EJMM3546T-G	15.41	37	85.5	230/460	1.5	30
1 1/2	3600	143JM	EJMM3550T-G	15.41	38	86.5	230/460	1.9	30
	1800	143JM	EJMM3554T-G	15.41	41	84	230/460	2.2	30
2	3600	145JM	EJMM3555T-G	15.41	41	85.5	230/460	2.5	30
	1800	145JM	EJMM3558T-G	15.41	45	86.5	230/460	2.9	30
3	3600	182JM	EJMM3610T-G	16.91	60	86.5	230/460	3.6	30
	1800	182JM	EJMM3611T-G	18.06	76	89.5	230/460	4.2	30
5	3600	184JM	EJMM3613T-G	18.06	81	88.5	230/460	5.9	30
	1800	184JM	EJMM3615T-G	19.56	93	89.5	230/460	6.7	30
7 1/2	3600	213JM	EJMM3709T-G	19.76	124	89.5	230/460	9	30
	1800	213JM	EJMM3710T-G	20.89	134	91.7	230/460	9.4	30
10	3600	215JM	EJMM3711T-G	19.76	124	90.2	230/460	11.8	30
	1800	215JM	EJMM3714T-G	22.38	165	91.7	230/460	12	30
15	3600	254JM	EJMM2394T-G	25.30	260	91	230/460	17.5	30
	1800	254JM	EJMM2333T-G	25.30	265	92.4	230/460	18.1	30
20	3600	256JM	EJMM4106T-G	25.30	274	91	230/460	23	30
	1800	256JM	EJMM2334T-G	25.30	308	93	230/460	24	30
25	3600	284JM	EJMM4107T-G	26.96	265	91.7	230/460	29	30
	1800	284JM	EJMM4103T-G	26.96	437	93.6	230/460	31	30
30	3600	286JM	EJMM4108T-G	26.96	299	91.7	230/460	34	30
	1800	286JM	EJMM4104T-G	28.64	437	93.6	230/460	38	30
40	3600	324JM	EJMM4109T-G	30.64	470	92.4	230/460	45	30
	1800	324JM	EJMM4110T-G	30.64	578	94.1	230/460	48	30
50	3600	326JM	EJMM4114T-G	30.65	575	93	230/460	56	30
	1800	326JM	EJMM4115T-G	30.65	700	94.5	230/460	58	30

(a) See notes on inside back flap.

Cast iron frame

Close-coupled pump, three phase, foot mounted, with internal AEGIS® bearing protection ring

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
Open drip proof									
1	1800	143JM	EJMM3116T-G	13.75	37	85.5	230/460	1.5	30
1 1/2	1800	145JM	EJMM3154T-G	13.75	41	86.5	230/460	2.2	30
2	1800	145JM	EJMM3157T-G	14.25	44	86.5	230/460	2.9	30
3	3600	145JM	EJMM3158T-G	15.13	51	85.5	230/460	3.8	30
	1800	182JM	EJMM3211T-G	16.50	74	89.5	230/460	4.2	30
5	3600	182JM	EJMM3212T-G	15.12	64	86.5	230/460	6	30
	1800	184JM	EJMM3218T-G	18.00	88	89.5	230/460	6.6	30
7 1/2	3600	184JM	EJMM3219T-G	16.50	78	88.5	230/460	8.6	30
	1800	213JM	EJMM3311T-G	18.19	120	91	230/460	9.7	30
10	3600	213JM	EJMM3312T-G	18.19	121	89.5	230/460	12	30
	1800	215JM	EJMM3313T-G	19.31	132	91.7	230/460	12.5	30
15	3600	215JM	EJMM3314T-G	18.19	134	90.2	230/460	17.5	30
	1800	254JM	EJMM2513T-G	23.19	213	93	230/460	17.7	30
20	3600	254JM	EJMM2514T-G	23.19	185	91	230/460	23.5	30
	1800	256JM	EJMM2515T-G	24.69	255	93	230/460	24	30
25	3600	256JM	EJMM2516T-G	23.19	233	91.7	230/460	28	30
	1800	284JM	EJMM2531T-G	25.94	377	93.6	230/460	30	30
30	3600	284JM	EJMM2534T-G	24.69	320	91.7	230/460	35	30
	1800	286JM	EJMM2535T-G	26.94	378	94.1	230/460	36	30
40	3600	286JM	EJMM2538T-G	24.69	330	92.4	230/460	46	30
	1800	324JM	EJMM2539T-G	27.44	378	94.1	230/460	49	30
50	3600	324JM	EJMM2542T-G	27.44	375	93	230/460	56	30
	1800	326JM	EJMM2543T-G	27.94	497	94.5	230/460	57	30

(a) See notes on inside back flap.

Pump motor

Close-coupled pump, three phase, TEFC 1 thru 50 Hp

IP44

Features:

- Oversize ball bearings for the pump industry
- Locked DE bearing to allow mounting in any configuration
- Oversize ball bearings for the pump industry
- Designed for longevity with a 3 year warranty on premium efficient Super-E® motors
- Suitable for Inverter use per NEMA MG1 Part 31.4.4.2

Applications:

- HVAC pumps
- General purpose pumps

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
230/460 volts									
1	1800	143JM	EJMM3546T	15.43	40	85.5	230/460	1.5	1, 30
1 1/2	3600	143JM	EJMM3550T	15.43	47	84	230/460	1.9	1, 30
	1800	145JM	EJMM3554T	15.43	44	86.5	230/460	2.2	1, 30
		145JP	EJPM3554T	18.50	41	86.5	230/460	2.2	1, 30
2	3600	145JM	EJMM3555T	15.43	47	85.5	230/460	2.5	1, 30
		145JP	EJPM3555T	18.49	41	85.5	230/460	2.5	1, 30
	1800	145JM	EJMM3558T	15.43	50	86.5	230/460	2.9	1, 30
		145JP	EJPM3558T	18.49	48	86.5	230/460	2.9	1, 30
3	3600	145JM	EJMM3559T	15.43	54	86.5	230/460	3.6	1, 30
		145JP	EJPM3559T	19.37	50	86.5	230/460	3.6	1, 30
		182JM	EJMM3610T	16.31	56	86.5	230/460	3.6	1, 30
		182JP	EJPM3610T	19.37	50	86.5	230/460	3.6	1, 30
	1800	182JM	EJMM3611T	16.81	76	89.5	230/460	4.2	1, 30
		182JP	EJPM3611T	19.87	70	89.5	230/460	4.2	1, 30
5	3600	184JM	EJMM3613T	18.06	79	88.5	230/460	5.9	1, 30
		184JP	EJPM3613T	21.11	81	88.5	230/460	5.6	1, 30
	1800	184JM	EJMM3615T	18.06	93	89.5	230/460	6.7	1, 30
		184JP	EJPM3615T	21.11	96	89.5	230/460	6.9	1, 30
7 1/2	3600	184JM	EJMM3616T	19.56	101	89.5	230/460	8.4	1, 30
		184JP	EJPM3616T	22.61	96	89.5	230/460	9.7	1, 30
		213JM	EJMM3709T	19.56	125	89.5	230/460	9	1, 30
		213JP	EJPM3709T	22.61	121	89.5	230/460	9	1, 30
		213TCZ	EWCM3709T	19.76	96	89.5	230/460	9.7	1, 30
	1800	213JM	EJMM3710T	23.64	134	91.7	230/460	9.4	1, 30
		213JP	EJPM3710T	23.45	129	91.7	230/460	10.7	1, 30
		213TCZ	EWCM3710T	20.88	129	91.7	230/460	10.7	1, 30
10	3600	215JM	EJMM3711T	24.79	130	90.2	230/460	11.8	1, 30
		215JP	EJPM3711T	23.95	118	90.2	230/460	11.8	1, 30
		215TCZ	EWCM3711T	19.76	118	90.2	230/460	11.8	1, 30
	1800	215JM	EJMM3714T	23.64	165	91.7	230/460	12	1, 30
		215JP	EJPM3714T	23.64	165	91.7	230/460	12	1, 30
		215TCZ	EWCM3714T	22.82	187	91.7	230/460	12.6	1, 30
15	3600	215JM	EJMM3713T	22.39	169	91	230/460	17	1, 30
		215JP	EJPM3713T	26.29	169	91	230/460	17	1, 30
		215TCZ	EWCM3713T	25.45	169	91	230/460	17	1, 30
		254JM	EJMM2394T	25.30	257	91	230/460	17.5	1, 30
		254JP	EJPM2394T	28.16	260	91	230/460	17.8	1, 30
	1800	254JM	EJMM2333T	25.30	265	92.4	230/460	18.5	1, 30
		254JP	EJPM2333T	28.16	265	92.4	230/460	18.5	1, 30
20	3600	256JM	EJMM4106T	25.30	281	91	230/460	23	1, 30
		256JP	EJPM4106T	28.16	264	91	230/460	23	1, 30
	1800	256JM	EJMM2334T	25.30	304	93	230/460	24	1, 30
		256JP	EJPM2334T	28.16	300	93	230/460	24	1, 30

(a) See notes on inside back flap.

Cast iron frame

Close-coupled pump, three phase, TEFC

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
230/460 volts (continued)									
25	3600	284JM	EJMM4107T	26.96	353	91.7	230/460	29	20, 30
		284JP	EJPM4107T	29.84	349	91.7	230/460	29	20, 30
	1800	284JM	EJMM4103T	28.64	387	93.6	230/460	30	1, 30
		284JP	EJPM4103T	31.51	412	93.6	230/460	30	1, 30
30	3600	286JM	EJMM4108T	28.64	406	91.7	230/460	33	1, 30
		286JP	EJPM4108T	31.51	405	91.7	230/460	35	1, 30
	1800	286JM	EJMM4104T	28.64	422	93.6	230/460	36	1, 30
		286JP	EJPM4104T	31.51	452	93.6	230/460	36	1, 30
40	3600	324JM	EJMM4109T	30.64	487	92.4	230/460	45	1, 30
		324JP	EJPM4109T	33.51	498	92.4	230/460	45	1, 30
	1800	324JM	EJMM4110T	30.65	586	94.1	230/460	48	1, 30
		324JP	EJPM4110T	33.41	602	94.1	230/460	48	1, 30
50	3600	326JM	EJMM4114T	30.65	595	93	230/460	56	1, 30
		326JP	EJPM4114T	33.41	604	93	230/460	56	1, 30
	1800	326JM	EJMM4115T	30.65	624	94.5	230/460	58	1, 30
		326JP	EJPM4115T	33.41	646	94.5	230/460	58	1, 30
575 volts									
1	1800	143JM	EJMM3546T-5	15.43	38	85.5	575	1.2	1
1 1/2	3600	143JM	EJMM3550T-5	15.41	38	84	575	1.5	
	1800	145JM	EJMM3554T-5	15.43	41	86.5	575	1.8	1
2	3600	145JM	EJMM3555T-5	15.41	41	85.5	575	2	
	1800	145JM	EJMM3558T-5	15.43	45	86.5	575	2.3	1
3	3600	145JM	EJMM3559T-5	16.29	50	86.5	575	2.9	1
		182JM	EJMM3610T-5	16.69	63	86.5	575	2.9	
	1800	182JM	EJMM3611T-5	18.06	70	89.5	575	3.3	1
5	3600	184JM	EJMM3613T-5	18.06	74	88.5	575	4.7	1
	1800	184JM	EJMM3615T-5	19.56	93	89.5	575	5.3	1
7 1/2	3600	184JM	EJMM3616T-5	19.56	96	89.5	575	6.8	1
	1800	213JM	EJMM3710T-5	20.88	127	91.7	575	7.6	1, 35
10	3600	215JM	EJMM3711T-5	19.76	118	90.2	575	9.5	20
	1800	215JM	EJMM3714T-5	22.38	165	91.7	575	9.6	1, 35
15	3600	215JM	EJMM3713T-5	22.38	169	91	575	13.4	1
		254JM	EJMM2394T-5	23.07	225	91	575	13.5	1, 35
	1800	254JM	EJMM2333T-5	25.30	268	92.4	575	14.6	1, 35

(a) See notes on inside back flap.

Cast iron frame

Pump motor

Close-coupled pump, three phase, TEFC, footless 1 thru 20 Hp

IP44

Features:

- Oversize ball bearings for the pump industry
- Locked DE bearing to allow mounting in any configuration
- Designed for longevity with a 3 year warranty on premium efficient Super-E® motors
- Suitable for Inverter use per NEMA MG1 Part 31.4.4.2

Applications:

- HVAC pumps
- General purpose pumps

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
230/460 volts									
1	1800	143JM	VEJMM3546T	14.43	38	85.5	230/460	1.5	1, 30
1 1/2	1800	145JM	VEJMM3554T	15.43	45	86.5	230/460	2.2	1, 30
2	1800	145JM	VEJMM3558T	15.43	44	86.5	230/460	2.9	1, 30
3	1800	182JM	VEJMM3611T	18.05	74	89.5	230/460	4.2	1, 30
5	1800	184JM	VEJMM3615T	19.55	90	89.5	230/460	6.7	1, 30
	3600	213JM	VEJMM3709T	19.76	121	89.5	230/460	9	1, 30
7 1/2	1800	213JM	VEJMM3710T	20.92	136	91.7	230/460	9.4	1, 30
10	1800	215JM	VEJMM3714T	22.40	165	91.7	230/460	12	1, 30
15	1800	254JM	VEJMM2333T	25.28	278	92.4	230/460	18.1	1, 30
20	1800	256JM	VEJMM2334T	25.28	303	93	230/460	24	1, 30
575 volts									
1	1800	143JM	VEJMM3546T-5	15.43	38	86.5	575	1.1	1
1 1/2	1800	145JM	VEJMM3554T-5	16.31	41	86.5	575	1.6	1
2	1800	145JM	VEJMM3558T-5	15.43	45	86.5	575	2.2	1
3	1800	182JM	VEJMM3611T-5	18.05	70	89.5	575	3.1	1
5	1800	184JM	VEJMM3615T-5	19.55	93	89.5	575	5.3	1
7 1/2	1800	213JM	VEJMM3710T-5	20.92	127	91.7	575	7.6	1, 35
10	1800	215JM	VEJMM3714T-5	22.42	165	91.7	575	9.6	1, 35
15	1800	254JM	VEJMM2333T-5	25.28	255	92.4	575	14.6	1, 35
20	1800	256JM	VEJMM2334T-5	25.28	303	93	575	19.2	1, 35

(a) See notes on inside back flap.

Cast iron frame

Pump motor

Close-coupled pump, three phase, ODP 1 thru 75 Hp

IP23

Features:

- Rodent screens to protect against trash debris
- Oversize ball bearings for the pump industry
- Locked DE bearing to allow mounting in any configuration
- Designed for longevity with a 3 year warranty on premium efficient Super-E® Motors optimized torque profiles
- Suitable for Inverter use per NEMA MG1 Part 31.4.4.2

Applications:

- HVAC pumps
- General purpose pump

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
Foot mounted, 230/460									
1	1800	143JM	EJMM3116T	13.75	38	85.5	230/460	1.5	1, 30
		143JP	EJPM3116T	16.81	38	85.5	230/460	1.5	1, 30
1 1/2	3600	143JM	EJMM3120T	13.75	34	84	230/460	2	1, 30
	1800	145JM	EJMM3154T	13.75	38	86.5	230/460	2.2	1, 30
		145JP	EJPM3154T	16.81	37	86.5	230/460	2.2	1, 30
2	3600	145JM	EJMM3155T	13.75	44	86.5	230/460	2.5	1, 30
	1800	145JM	EJMM3157T	14.25	44	86.5	230/460	2.9	1, 30
		145JP	EJPM3157T	17.31	43	86.5	230/460	2.9	1, 30
3	3600	145JM	EJMM3158T	15.13	49	85.5	230/460	3.8	1, 30
		145JP	EJPM3158T	17.31	48	85.5	230/460	3.8	1, 30
	1800	182JM	EJMM3211T	16.50	72	89.5	230/460	4.2	1, 30
		182JP	EJPM3211T	19.56	74	89.5	230/460	4.2	1, 30
5	3600	182JM	EJMM3212T	15.12	64	86.5	230/460	6	1, 30
		182JP	EJPM3212T	18.18	63	86.5	230/460	6	1, 30
		182TCZ	EWCM3212T	18.32	63	86.5	230/460	6	1, 30
	1800	184JM	EJMM3218T	18.00	87	89.5	230/460	6.6	1, 30
		184JP	EJPM3218T	21.06	92	89.5	230/460	6.6	1, 30
	1200	215JM	EJMM3309T	19.31	141	89.5	230/460	7.4	1, 30
7 1/2	3600	184JM	EJMM3219T	16.50	78	88.5	230/460	8.6	1, 30
		184JP	EJPM3219T	19.56	77	88.5	230/460	8.6	1, 30
		184TCZ	EWCM3219T	19.69	77	88.5	230/460	8.6	1, 30
	1800	213JM	EJMM3311T	18.19	120	91	230/460	9.7	1, 30
		213JP	EJPM3311T	20.94	130	91	230/460	9.3	1, 30
	1200	254JM	EJMM2506T	24.69	248	90.2	230/460	11	1, 30
10	3600	213JM	EJMM3312T	18.19	120	89.5	230/460	12	1, 30
		213JP	EJPM3312T	22.07	122	89.5	230/460	12	1, 30
		213TCZ	EWCM3312T	21.25	121	89.5	230/460	12	1, 30
	1800	215JM	EJMM3313T	19.31	136	91.7	230/460	12.5	1, 30
		215JP	EJPM3313T	23.20	138	91.7	230/460	12.5	1, 30
	1200	256JM	EJMM2511T	24.69	255	91.7	230/460	14.3	1, 30
15	3600	215JM	EJMM3314T	18.19	131	90.2	230/460	17.5	1, 30
		215JP	EJPM3314T	22.07	134	90.2	230/460	17.5	1, 30
		215TCZ	EWCM3314T	21.25	131	90.2	230/460	17.5	1, 30
	1800	254JM	EJMM2513T	23.19	214	93	230/460	17.7	1, 30
		254JP	EJPM2513T	26.06	219	93	230/460	17.7	1, 30
	1200	284JM	EJMM2524T	24.69	300	91.7	230/460	20.5	1, 30
20	3600	254JM	EJMM2514T	23.19	195	91	230/460	23.5	1, 30
		254JP	EJPM2514T	26.06	220	91	230/460	23.5	1, 30
	1800	256JM	EJMM2515T	23.19	248	93	230/460	23.5	1, 30
		256JP	EJPM2515T	26.06	236	93	230/460	23.5	1, 30
25	3600	256JM	EJMM2516T	23.19	219	91.7	230/460	28	1, 30
		256JP	EJPM2516T	26.06	230	91.7	230/460	28	1, 30
	1800	284JM	EJMM2531T	25.94	317	93.6	230/460	30	1, 30
		284JP	EJPM2531T	28.81	335	93.6	230/460	30	1, 30

(a) See notes on inside back flap.

Close-coupled pump, three phase, ODP

Hp	RPM	NEMA Frame	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
Foot mounted, 230/460 (continued)									
30	3600	284JM	EJMM2534T	26.56	309	91.7	230/460	33	1, 30
		284JP	EJPM2534T	29.44	310	91.7	230/460	33	1, 30
	1800	286JM	EJMM2535T	25.94	359	94.1	230/460	35	1, 30
		286JP	EJPM2535T	28.81	370	94.1	230/460	35	1, 30
40	3600	286JM	EJMM2538T	26.56	328	92.4	230/460	45	1, 30
		286JP	EJPM2538T	29.44	329	92.4	230/460	45	1, 30
	1800	324JM	EJMM2539T	27.44	417	94.1	230/460	49	1, 30
		324JP	EJPM2539T	30.31	378	94.1	230/460	47	1, 30
50	3600	324JM	EJMM2542T	26.94	421	93	230/460	58	1, 30
		324JP	EJPM2542T	29.81	424	93	230/460	58	1, 30
	1800	326JM	EJMM2543T	27.94	491	94.5	230/460	57	1, 30
		326JP	EJPM2543T	30.81	500	94.5	230/460	57	1, 30
60	3600	326JM	EJMM2546T	26.94	472	93.6	230/460	68	1, 30
	1800	364JP	EJPM2547T	33.19	565	95	230/460	68	1, 30
75	1800	365JP	EJPM2551T	36.22	597	95	230/460	87	1, 30
Foot mounted, 575 volts									
3	3600	145JM	EJMM3158T-5	14.25	48	85.5	575	3	
	1800	182JM	EJMM3211T-5	16.50	74	89.5	575	3.1	1
5	3600	182JM	EJMM3212T-5	16.50	63	90.2	575	4.5	
	1800	184JM	EJMM3218T-5	18.00	92	89.5	575	5.2	1
7 1/2	3600	184JM	EJMM3219T-5	16.50	77	88.5	575	6.9	1
	1800	213JM	EJMM3311T-5	18.19	120	91	575	7.4	1, 35
10	3600	213JM	EJMM3312T-5	19.31	137	91.7	575	9.2	
	1800	215JM	EJMM3313T-5	18.19	132	91.7	575	10	1
15	3600	215JM	EJMM3314T-5	19.31	131	90.2	575	14	1
Footless, 230/460									
1	1800	143JM	VEJMM3116T	14.43	37	85.5	230/460	1.5	1, 30
1 1/2	1800	145JM	VEJMM3154T	15.43	43	86.5	230/460	2.2	1, 30
2	1800	145JM	VEJMM3157T	15.43	46	86.5	230/460	2.9	1, 30
3	3600	145JM	VEJMM3158T	14.25	48	85.5	230/460	3.8	1, 30
	1800	184JM	VEJMM3211T	18.06	74	89.5	230/460	4.2	1, 30
5	3600	182JM	VEJMM3212T	16.66	63	86.5	230/460	6	1, 30
	1800	184JM	VEJMM3218T	19.56	84	89.5	230/460	6.6	1, 30
7 1/2	3600	184JM	VEJMM3219T	18.04	77	88.5	230/460	8.6	1, 30
	1800	213JM	VEJMM3311T	19.78	125	91	230/460	9.6	1, 30
10	3600	213JM	VEJMM3312T	18.19	121	89.5	230/460	12	1, 30
	1800	215JM	VEJMM3313T	22.41	165	91.7	230/460	12	1, 30
15	3600	215JM	VEJMM3314T	18.69	131	90.2	230/460	17.5	1, 30
Footless, 575 volts									
1	1800	143JM	VEJMM3116T-5	15.43	44	86.5	575	1.1	
1 1/2	1800	145JM	VEJMM3154T-5	16.31	51	86.5	575	1.6	
2	1800	145JM	VEJMM3157T-5	16.31	52	86.5	575	2.1	
3	1800	182JM	VEJMM3211T-5	18.06	74	89.5	575	3.1	
5	1800	182JM	VEJMM3218T-5	18.06	77	89.5	575	5.2	

(a) See notes on inside back flap.

Pump motor

Close-coupled pump, three phase, totally enclosed, foot mounted 1 thru 20 Hp

IP55

Features:

- Oversized, double sealed ball bearings
- Locked DE bearing
- Neoprene gaskets
- Lip and V-Ring seal on DE
- NEMA Premium® efficiency
- White epoxy, corrosion resistant finish
- 300 series stainless steel hardware and shaft extension

Applications:

- Water pumps commercial and industrial
- Wet environment

Hp	RPM	NEMA Frame	Enclosure	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
1	3600	143JM	TENV	JMEWDM3545T	15.41	35	84	230/460	1.4	1
	1800	143JM	TENV	JMEWDM3546T	14.25	39	85.5	230/460	1.5	1, 30
1 1/2	3600	143JM	TENV	JMEWDM3550T	14.28	48	85.5	208-230/460	2	1, 30
	1800	145JM	TENV	JMEWDM3554T	15.16	50	86.5	230/460	2.1	30
2	3600	145JM	TEFC	JMEWDM3555T	15.43	47	85.5	208-230/460	2.5	1, 30
	1800	145JM	TEFC	JMEWDM3558T	16.34	48	86.5	230/460	2.9	1, 30
3	3600	145JM	TEFC	JMEWDM3559T	16.31	50	86.5	230/460	3.6	1, 30
	1800	182JM	TEFC	JMEWDM3611T	18.05	70	89.5	230/460	4.2	1, 30
5	3600	184JM	TEFC	JMEWDM3613T	18.05	81	88.5	230/460	5.6	1, 30
		184JM	TEFC	JMEWDM3613T-5	18.05	74	88.5	575	4.7	10
	1800	184JM	TEFC	JMEWDM3615T	19.55	93	89.5	230/460	6.7	1, 30
7 1/2	3600	184JM	TEFC	JMEWDM3616T	19.55	96	89.5	230/460	8.4	1, 30
	1800	213JM	TEFC	JMEWDM3710T	20.91	151	91.7	230/460	9.5	1, 30
10	3600	215JM	TEFC	JMEWDM3711T	20.91	130	90.2	208-230/460	10.8	1, 30
	1800	215JM	TEFC	JMEWDM3714T	22.41	165	91.7	230/460	12	1, 30
15	3600	215JM	TEFC	JMEWDM3713T	21.64	169	91	230/460	17	1, 30
	1800	254JM	TEFC	JMEWDM23933T	25.06	252	92.4	230/460	18	1, 30
20	3600	256JM	TEFC	JMEWDM41906T	25.06	255	91	230/460	23	2
	1800	256JM	TEFC	JMEWDM23934T	25.06	275	93	230/460	24	1, 30

(a) See notes on inside back flap.

Pump motor

Close-coupled pump, three phase, totally enclosed, foot mounted, washdown features 25 thru 75 Hp

IP55

Features:

- Oversized, double sealed ball bearings
- Locked DE bearing
- Neoprene gaskets
- Lip and V-Ring seal on DE
- NEMA Premium® efficiency
- White epoxy, corrosion resistant finish
- 300 series stainless steel hardware and shaft extension
- Rugged cast iron construction

Applications:

- Water pumps commercial and industrial
- Wet environment

Hp	RPM	NEMA Frame	Enclosure	Catalog Number	"C" Dim.	Aprx. Wt. (lb)	Full Load Efficiency	Voltage	Full Load Amps	Notes (a)
25	3600	284JM	TEFC	JMEWDM4107T	28.44	446	91.7	230/460	30	1
	1800	284JM	TEFC	JMEWDM4103T	28.44	437	93.6	230/460	30	1
30	3600	286JM	TEFC	JMEWDM4108T	28.44	459	91.7	230/460	34	1, 30
	1800	286JM	TEFC	JMEWDM4104T	28.44	460	93.6	230/460	36	1
40	3600	324JM	TEFC	JMEWDM4109T	30.53	587	92.4	230/460	47	1
	1800	324JM	TEFC	JMEWDM4110T	30.53	600	94.1	230/460	46	1, 30
50	3600	326JM	TEFC	JMEWDM4114T	30.53	635	93	230/460	55	1
	1800	326JM	TEFC	JMEWDM4115T	30.53	700	94.5	230/460	57	1
60	3600	364TCZ	TEFC	JMEWDM4310T	33.11	999	93.6	230/460	66.1	
	1800	364TCZ	TEFC	JMEWDM4314T	33.11	961	95	230/460	70	
75	3600	365TCZ	TEFC	JMEWDM4313T	33.11	1005	94.5	230/460	80.7	
	1800	365TCZ	TEFC	JMEWDM4316T	33.11	965	95.4	230/460	86	

(a) See notes on inside back flap.

Cast iron frame

Catalog notes

Customers have easy access to additional data and information by visiting new.abb.com/motor-generators or baldor.com.

- Local sales offices
- Authorized distributors
- Sales terms & conditions
- Freight policy
- Warranty information
- Authorized service centers
- Product literature
- Energy efficiency
- Performance data
- Connection diagrams
- Dimension sheets
- Installation manuals
- Renewal parts
- Customer product education

Catalog notes:

Efficiencies – Efficiencies of all 60 Hz motor designs are listed as NEMA nominal at full load (Except the motors designed to meet the Small Motor Rule average efficiencies as specified by the DOE).

Full Load Amps (FLA) – For low voltage amps, double high voltage amps shown, excluding medium voltage amps for 2300/4000 voltage.

Motor bearings – Motors with ball bearings are suitable for coupled loads. If a load is belted, a roller bearing may be required, contact your local sales office if you have questions or need assistance.

Service factor – NEMA T-frames in TEFC construction have a service factor of 1.15 or greater except where noted. All NEMA U-frame TEFC motors (except explosion-proof) have NEMA open service factors. Fractional horsepower TEFC motors have NEMA open service factors. All Inverter-Duty® and Vector Duty® AC motors have 1.0 Service Factors. All DC motors have 1.0 service factors.

Mounting holes – Most steel band and cast iron foot-mounted motors have dual mounting holes (143T-145T, 182T-184T, etc.)

F1/F2 – All Cast iron motors are built with symmetrical frames which may be converted from F1 to F2 by switching endplates and rotor from end-to-end except for L182T, L184T, L213T, L215T and L449T. TEFC 5000 and 5800 frame motors are field convertible from F1 to F2 via swingarm. For ODP 5000 and 5800 Frames, please check with factory for F-1/F-2 conversion. Frames with the "L" prefix have standard NEMA base and BA dimensions. Also applies to TC versions of these frame sizes.

SCR drive motors – Field Amps listed are for High Voltage Connections with motor at operating temperature.

Modified motors – Using stock motors, ABB can modify motors to fit a variety of applications in only 2 to 5 working days for most modifications. Please see the Mod Express section in this catalog for more information.

Custom motors – For information on motor designs and capabilities not found in this catalog, please contact your local sales office.

IP Protection – Baldor-Reliance® enclosures [1]	
Open motor enclosures:	
IP22 or 23 -	Open drip proof AC or DC motors
Totally enclosed motor enclosures * :	
IP44 -	LV General purpose AC or DC motors **
IP54 -	MV General purpose AC motors
IP55 -	ABB IEC motors Severe duty AC motors (ECP) Crusher, Quarry & Dirty Duty motors White Washdown & Paint-Free motors
IP56 -	LV Motors meeting IEEE 841 Dirty Duty motors Feather Picker motors Stainless steel motors (non-encapsulated)
IP69 for Water -	Food Safe Stainless steel encapsulated motors

Notes:
[1] Codes are not included on stock motor nameplate as standard.
* Totally enclosed motors will meet IP protection level indicated when drain plugs and or T-drains are properly installed.
** IP54 when drain fitting kit #HA5027A03 is installed in the weep holes (48 thru 256T frame motors only)

Summary of IP protection numbers

First #	**Protection Against Solid Objects**	**Second #**	**Protection Against Liquids**
IP	Tests	0	No protection
O	No protection	1	Protection against vertical drops of water. (e.g. condensation.)
1	Protection against solid objects up to 50 mm. (e.g. Accidental touch by hands.)	2	Protection against falling water up to 15 degrees from the vertical.
2	Protection against solid objects up to 12 mm. (e.g. fingers)	3	Protection against falling water up to 60 degrees from the vertical.
3	Protection against solid objects over 2.5 mm. (e.g. tools, wires)	4	Protection against splashing water from all directions, limited ingress.
4	Protection against solid objects over 1mm. (e.g. tools, wires and small wires)	5	Protection against low pressure jets of water from all directions, limited ingress.
5	Protection against dust - limited ingress	6	Protection against strong jets of water. (e.g. Use on ship decks, limited ingress.)
6	Totally protected against all dust.	7	Protection against immersion.
		8	Protection against submersion.
		9	Protection against high pressure, high temperature spray of water from all directions

Contact your local sales office for clarification, assistance or additional information on any Baldor-Reliance or ABB product.
A listing of the offices can be found on baldor.com

Catalog notes

1. Class F insulated motor with 1.15 service factor or higher that operates within Class “B” temperature limits at rated horsepower.
2. 1.00 service factor.
3. Capacitor start, induction run.
5. Belted duty only, roller bearing.
6. F-2 mounting
7. Copper bar rotor
8. Class “H” Insulated.
9. Metric frame dimensions
10. Non-stock, built on demand.
11. F-3 mounting
12. 1.25 service factor
13. 1.35 service factor
14. 1.00 service factor, Class F rise
15. Small Motor Rule compliant. Average efficiency.
16. Motor can no longer be produced as of June 1, 2016. The Integral Horsepower Rule allows for existing inventory of this motor built prior to June 1, 2016 to be sold until inventory is depleted.
17. Capable of 100% thrust in either direction.
18. Motors are rated for Division 2, Class I, Groups C&D only
19. 60/50 Hertz motor. 60 Hertz data shown, contact your local sales office for 50 Hertz data.
20. Class F insulation.
21. Stage 3 EU MEPS.
22. Non-encapsulated winding.
24. Part winding start or DOL.
25. Wye start, delta run or DOL.
27. Motors have ball bearing suitable for coupled loads. If load is belted, a roller bearing may be required, contact your local sales office.
29. V-dimension is 2.5”.
30. Usable at 208 volts.
31. Design D
33. Voltage @ 60 Hz.
35. Design A, exceeds Design B inrush limits.
36. Can mount as NEMA 56, 143T & 145T frames with NEMA 56 frame shaft dimensions.
37. Can mount as NEMA 56, 143T & 145T frames with NEMA 143T-145T frame shaft dimensions.
38. Motor not suitable for inverter use.
40. Brake motors may be mounted for vertical mounting with brake below motor.
41. Brake motors may be mounted for vertical mounting with brake above or below motor.
42. Brake motors must be modified for vertical mounting. Springs included with brake.
45. Horizontal mount, no C-Face. May be converted to C-Face in Mod Express® or built as custom motors.
46. Includes 1024 ppr encoder.
47. BA dimension does not meet NEMA standards.
48. Includes phase insulation. Suitable for use on inverter.
50. Voltage @ 50 Hz, usable on 460 Volt 60 Hz.
51. Full Load Amps @ 400 Volt nominal - 50 Hz.
52. IP55 enclosure.
53. Tungsten carbide outer seal
56. Legacy Reliance® E-Line motor design. Has F1 side mounted conduit

box. Single frame mounting holes in 447 & 449 frame sizes.

57. Can mount as NEMA 145T frame with 145T frame shaft dimensions.
59. Suitable for operation @ 415V, 50 Hz.
60. Totally-enclosed, non-ventilated, continuous duty.
63. Foot also drilled for 447T frame mounting.
64. Motors include 100 ohm platinum winding RTDs and space heaters.
65. Capacitor start, capacitor run (two value capacitor).
66. Resilient mount single phase motors with moderate starting torque for fan applications.
67. NEMA 48 Base Mount, not swivel mount.
68. 3 lead.
69. 6 lead suitable for part winding start on 200 volts.
70. Constant velocity fan: 230/460 volts, three phase.
71. Nominal efficiency is based at the 1800 RPM (High RPM) and low speed efficiency is available just not published.
73. SCR motors with a 3:1 constant torque speed range.
74. V-dimension is 3”.
77. Inverter duty.
78. Furnished without conduit box. (Order kit BK2400)
80. Motor has thermostat and provisions for adding flange mounted tach.
81. 230/460V 3Φ motor, 200/400V 3Φmotor or 115/230V 1Φ motor connected for voltage shown. Can be reconnected for other voltage.
82. Single voltage motor. Cannot reconnect.
83. May be operated on 50Hz rectified power supply with full nameplate rating. AC supply voltage must be same as 60Hz supply; i.e., either 230 or 460 volts. Motor nameplate is stamped D-50/60. Motor mounted blower may be added to DPG enclosure.
84. May be operated on 50Hz rectified power supply with full nameplate rating only when motor is force ventilated with motor mounted blower. AC supply voltage must be same as 60Hz supply.
85. Cannot be operated at full nameplate rating on 50Hz rectified power supply.
87. Motor has thermostat and provisions for adding adapter mounted tach.
88. Sleeve bearings - coupled loads only.
89. Cooling fan on each end.
90. Foot mounted and 180TC face.
91. Foot mounted and 210TC face.
92. Foot mounted and 250TC face.
93. Foot mounted only.
94. Foot mounted only. These stock models include VPI insulation on L440 only, insulated ODE bearing, shaft ground brush, and stator RTD’s.

Catalog notes

95. Foot mounted only. Includes filter, VPI, insulated ODE bearing and two sets of thermostats.
96. UL Recognized thermal protection.
97. One size smaller flange and shaft.
99. G-Series motor design. Has F3 Lead outlet in frame and an arm mounted conduit box for F1 & F2 Lead Location. Dual Frame mounting holes in 445/447 and 447/449 frames.
100. Motor will be discontinued once inventory is depleted
101. Blower on drive end.
102. Force vent with blower and filter. Full nameplate rating on 50 Hz rectified power, AC supply voltage must be same as 60 Hz supply.
103. Force vent with blower, full nameplate rating on 50 Hz rectified power. AC supply voltage must be same as 60 Hz supply, thermostats and tach provisions.
104. Force vent with blower, cannot run full nameplate on 50 Hz rectified power, thermostats and tach provisions.
105. Force vent with blower on drive end filter, thermostats and tach provisions.
106. Suitable for sinewave operation.
107. Uses HS25 encoder, 1024 PPR

Abbreviations

The basic catalog number consists of a letter(s) prefix and several non-significant proceeding numbers. A suffix letter(s) and/or number(s) may also be part of the catalog number. For example L3510 or L3510T. Following is a list of prefix and suffix definitions.

Motors Prefix	
AEM	Automotive Motor, three phase
AFL	Aeration Fan Motor, single phase
AFM	Aeration Fan Motor, three phase
ANFL	Auger Fan Motor, single phase
AOM	Air Over Motor, three phase
AP	Subfractional Hp, PM motor
B	Brake motor
BN	Brake motor, TENV enclosure
BTG	Tachometer generator
C	NEMA C-Face with base
CBXM	General Purpose explosion proof, Brake, three phase, C-Face foot mounted
CBXMN	General Purpose explosion proof, Brake, three phase, C-Face foot mounted, TENV
CCPX	Severe Duty explosion proof, three phase, C-Face foot mounted
CD	Wound field DC motor NEMA C-Face with base
CDM	Dirty Duty - three phase, C-Face
CDMG	Lifting magnet generator, C-Face
CDP	PM SCR drive motor
CDPSWD	Paint free washdown PM SCR drive motor C-Face with base
CDPT	PM SCR drive motor with integral tachometer
CDPWD	Washdown PM SCR drive motor NEMA C-Face with base
CDPX	Explosion proof PM SCR drive motor C-Face with base
CDRX	Drill Rig Duty explosion proof, three phase, C-face foot mounted
CDRXL	Drill Rig Duty explosion proof, single phase, C-face foot mounted
CDX	Explosion proof wound Field DC motor, NEMA C-Face
CEL	Super-E® premium efficient motor, single phase, C-Face
CEM	Super-E premium efficient motor, three phase, C-Face
CFC	Condenser fan motor, permanent split capacitor
CFM	Condenser fan motor, three phase
CHC	Direct drive fan motor, permanent split capacitor
CHL	Direct drive fan motor, single phase
CHM	Direct drive fan motor, three phase
CJWDM	Washdown jet pump, three phase, foot mounted
CP	Severe duty motor
CPX	Severe Duty explosion proof, three phase
CR	Crusher duty motor
CSC	Checkout stand motor
CTM	Cooling tower motor, three phase
CXL	General Purpose explosion proof, single phase, C-Face foot mounted
CXM	General Purpose explosion proof, three phase, C-Face foot mounted
D	Wound field DC motor
DDC	Direct drive, indoor blower motor, permanent split capacitor
DEL	Dairy/vacuum pump motor, single phase
DM	Dirty Duty - three phase
DRX	Drill Rig Duty explosion proof, three phase
E	Super-E premium efficient motor
ECP	Super-E Severe duty motor
ECP6	IEEE 661 motor
ECP8	IEEE 841 motor
ENCP	Super-E severe duty motor, TENV
ENCP8	IEEE 841 motor, TENV
F	TEFC motor (when special)
FDL	Farm duty motor, single phase
FDEM	Farm duty motor, three phase, premium efficient, standard NEMA frame
FLT	Filter kit
FM	F-2 mounted motor
FP	Fire pump motor

Motors Prefix	
FSWDM	All stainless steel food safe washdown motor, three phase
FSWDL	All stainless steel food safe washdown motor, single phase
FVB	Blower kit
FWDM	Washdown duty motor, TEFC, three phase
GD	Grain dryer centrifugal fan motor
GSL	Grain stirring motor, single phase
HFM	HVAC duty, F-2 mounted connection box, three phase
HIC	Incubator/hatchery vent fan motor, permanent split capacitor
HM	HVAC duty motor, three phase
HPM	Hydraulic pump motor, three phase
IDBRPM	RPMAC Inverter-Duty® motor – laminated frame, TEBC
IDCSWDM	Inverter-Duty® motor, paint free washdown, C-Face with base
IDDRPM	RPMAC Inverter-Duty® motor – laminated frame, DPG-FV
IDFRPM	RPMAC Inverter-Duty® motor – laminated frame, TEFC
IDM	Inverter-Duty® motor, TEBC
IDNM	Inverter-Duty® motor, TENV
IDNRPM	RPMAC Inverter-Duty® motor – laminated frame, TENV
IDVSM	VS Master Inverter-Duty® motor
IDVSNM	VS Master Inverter-Duty® motor, TENV
IDVSWDM	Inverter-Duty® motor, paint free washown, C- Face less base
IDWNM	Washdown Inverter-Duty® motor, TENV
IM	Irrigation drive motor
IR	Instant reversing single phase farm motor
J	56J stainless steel threaded shaft with drip cover/jet pump
JM	JM pump shaft and face
JMXM	General purpose explosion proof, three phase, Close Couped Pump
JP	JP pump shaft & face with base/close-coupled pump
JPDRX	Drill Rig Duty explosion proof, three phase, Close Coupled pump
JPM	JP pump shaft and face with base, three phase/close-coupled pump
JS	Square flange pump mount motors with threaded shaft
JXL	General purpose explosion proof, single phase, jet pump
JXM	General purpose explosion proof, three phase, jet pump
K	Model 34 diameter motor with 56 C-Face, less base
L	Single phase motor
M	Three phase motor
MM	Metric dimension motor with base
MP	Metering pump motor, three phase
MVM	Metric dimension motor, flange mount less base, three phase
N	Totally enclosed non-ventilated motor
PCL	Pressure washer motor, C-Face with base, single phase
PFTG	Tachometer generator foot mount
PL	Pressure washer motor, single phase
PSC	Permanent split capacitor motor
PTG	Tachometer generator
R	Repulsion-start induction-run motor
RBM	High cycle brake motor, three phase
RHM	Definite purpose HVAC motors, three phase
RL	Resilient base motor (cradle mount), single phase
RM	Resilient base motor (cradle mount), three phase
SPM	Synchronous permanent magnet motor
SSEWDM	All stainless encapsulated Super-E washdown motor, three phase
SSWDM	All stainless washdown, three phase
SWDM	Paint free washdown duty motor, three phase
UCC	Universal crop dryer motor, permanent split capacitor, open air over
UCCE	Universal crop dryer motor, permanent split capacitor, TEAO
UCL	Grain dryer/vane axial fan, single phase, open air over
UCLE	Grain dryer/vane axial fan, single phase, TEAO
UCM	Grain dryer/vane axial fan, three phase, open air over

Abbreviations

Motors Prefix

UCME	Grain dryer/vane axial fan, three phase, TEAO
UH	Unit handling motor
UHM	Unit handling motor, three phase
V	NEMA C-Face less base
V2L	Two compartment jet pump motor C-Face less base, single phase
VDRX	Drill Rig Duty explosion proof, three phase, C-face footless
VEM	Super-E premium efficient motor, three phase, C-Face, less base
VHECP	Super-E vertical pump motor, severe duty - normal thrust
VHM	Vertical pump motor - normal thrust, three phase
VLCP	Vertical pump motor, severe duty – medium thrust
VP	PM SCR drive motor with metric flange or C-Face
VPCP	Vertical pump motor, severe duty – high thrust
VXL	General Purpose explosion proof, single phase, C-Face footless
VXM	General Purpose explosion proof, three phase, C-Face footless
WC	West coast fit TCZ
WD	Washdown duty motor
WDBM	Washdown brake motor, three phase
XL	General purpose explosion proof, single phase
XM	General purpose explosion proof, three phase
YPC	Yoke pedestal fan motor, permanent split capacitor
ZDBRPM	RPMAC Vector Duty® motor – laminated frame, TEBC
ZDFRPM	RPMAC Vector Duty® motor – laminated frame, TEFC
ZDM	Vector Duty® motor, TEBC
ZDNM	Vector Duty® motor, TENV
ZDNRPM	RPMAC Vector Duty® motor - laminated frame, TENV
ZDPM	RPMAC permanent magnet rotor - laminated frame
ZDVSCP	VS Master severe duty Vector Duty® motor
ZDVSM	VS Master Vector Duty® motor
ZDVSNCP	VS Master severe duty Vector Duty® motor, TENV
ZDVSNM	VS Master Vector Duty® motor, TENV
ZDWNM	Washdown Vector Duty® motor, TENV
ZDVSNM	VS Master Vector Duty® motor, TENV
ZDWNM	Washdown Vector Duty® motor, TENV

Kits & Accessories Prefix

BLW	Blower kit
BU	Bushing kit
CBL	Cable assembly
CC	Corrective capacitor bank
EN	Encoder kit
FCD	Drip cover kit
FFC	Fan cover/conduit box Kit
FL	Flange kit
RBT	Roller bearing conversion kit
RES	Resolver feedback kit
TK	Tachometer mounting kit

Motors Suffix

/35	Full 140 frame band diameter
/36	Full 180 frame band diameter
-2	120/240V field
-2/4	200/400 volt winding
-4	460 volt winding
-5	575 volt winding
-8	200 volt winding
-9	NEMA Design C high torque winding
-12	12 leads
-50	Wound for 50 hertz service
-57	230/380-415 volt winding
-58	380-415 Volt Y-start/delta-run
-277	277 volt winding
-2340	2300/4000 volt winding

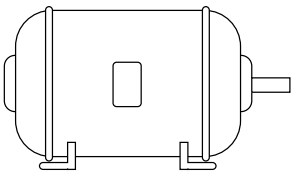
Motors Suffix (continued)

-AP	Aluminum process performance
-PP	Cast iron process performance
-BG	Baldor-Reliance® shaft ground motor
-BV	Blower vented
-CI	Cast iron frame
-D	Dodge D-series brake
-DI	Dings Brake
-E	Encapsulated windings
-EX1	Ex nA
-EX2	Ex d
-EX3	Ex de
-G	AEGIS shaft ground motor
-H	56H mounting
-I	Explosion-proof, 1.15 service factor
-NL	Non linear - for VFD use
-P	Partial AC motor excludes pulley endplate
-S	Dodge short-series brake
-TP	Refrigerator fan motor
A	Automatic thermal overload
C	IEC frame B14 face mount
D	IEC frame B5 flange mount
E	New electrical design
L	Long shafted motor with ball bearings that may be converted to have D.E. roller bearing.
LR	Long shafted motor with D.E. roller bearing that may be converted to ball bearings.
M	Manual thermal overload
P	Wound field DC motor NEMA “AT” frame
S	Motor has a short shaft for coupled loads
T	NEMA “T” frame dimensions
TP	Feather picker motor
TR	NEMA “T” frame - roller bearing
TS	NEMA “T” frame - short shaft
Y	Special mounting dimension

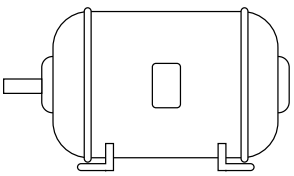
Grinders Suffix

D	Deluxe
E	Exhaust guards
W	Wide design

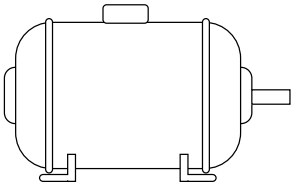
Floor Mountings



Assembly F-1

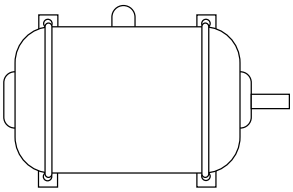


Assembly F-2

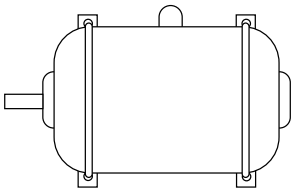


Assembly F-3

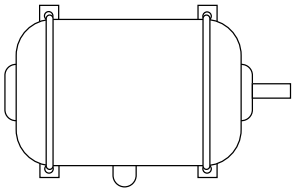
Wall Mountings



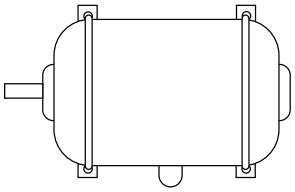
Assembly W-1



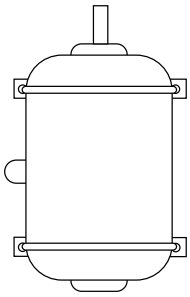
Assembly W-2



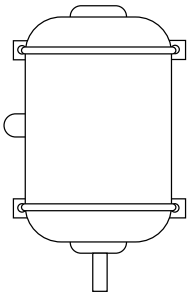
Assembly W-3



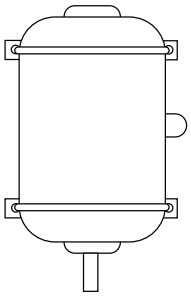
Assembly W-4



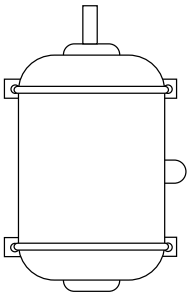
Assembly W-5



Assembly W-6

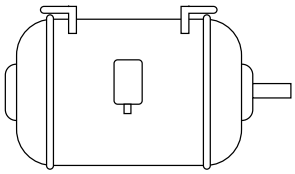


Assembly W-7

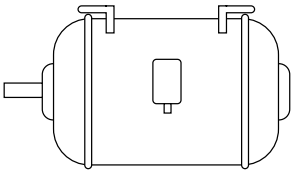


Assembly W-8

Ceiling Mountings

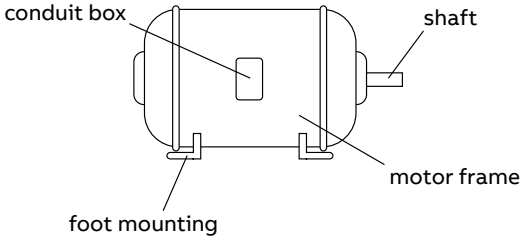


Assembly C-1



Assembly C-2

Note: For all NEMA mounting configurations, refer to NEMA MG 1-2016.

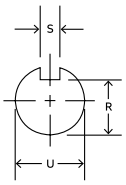


NEMA quick reference chart

NEMA Frame	D	E	2F	H	N	O	P	U	V	AA	AB	AH	AJ	AK	BA	BB	BD	XO	TAP
42	2-5/8	1-3/4	1-11/16	9/32 Slot	1-1/2	5	4-11/16	3/8	1-1/8	3/8	4-1/32	1-5/16	3-3/4	3	2-1/16	1/8	4-5/8	1-9/16	1/4-20
48	3	2-1/8	2-3/4	11/32 Slot	1-7/8	5-7/8	5-11/16	1/2	1-1/2	1/2	4-3/8	1-11/16	3-3/4	3	2-1/2	1/8	5-5/8	2-1/4	1/4-20
56	3-1/2	2-7/16	3	11/32	2-7/16	6-7/8	6-5/8	5/8	1-7/8	1/2	5	2-1/16	5-7/8	4-1/2	2-3/4	1/8	6-1/2	2-1/4	3/8-16
56H			5	Slot	2-1/8														
143T	3-1/2	2-3/4	4	11/32	2-1/2	6-7/8	6-5/8	7/8	2-1/4	3/4	5-1/4	2-1/8	5-7/8	4-1/2	2-1/4	1/8	6-1/2	2-1/4	3/8-16
145T			5																
182	4-1/2	3-3/4	4-1/2	13/32	2-11/16	8-11/16	7-7/8	7/8	2-1/4	3/4	5-7/8	2-1/8	5-7/8	4-1/2	2-3/4	1/8	6-1/2	2-3/8	3/8-16
184			5-1/2		2-11/16			7/8	2-1/4			2-1/8	5-7/8	4-1/2		1/8	6-1/2		3/8-16
182T			4-1/2		3-9/16			1-1/8	2-3/4			2-5/8	7-1/4	8-1/2		1/4	9		1/2-13
184T			5-1/2		3-9/16			1-1/8	2-3/4			2-5/8	7-1/4	8-1/2		1/4	9		1/2-13
213	5-1/4	4-1/4	5-1/2	13/32	3-1/2	10-1/4	9-9/16	1-1/8	3	1	7-3/8	2-3/4	7-1/4	8-1/2	3-1/2	1/4	9	2-3/4	1/2-13
215			7		3-1/2			1-1/8	3			2-3/4							
213T			5-1/2		3-7/8			1-3/8	3-3/8			3-1/8							
215T			7		3-7/8			1-3/8	3-3/8			3-1/8							
254U	6-1/4	5	8-1/4	17/32	4-1/16	12-7/8	12-15/16	1-3/8	3-3/4	1	9-5/8	3-1/2	7-1/4	8-1/2	4-1/4	1/4	10	—	1/2-13
256U			10		4-1/16			1-3/8	3-3/4			3-1/2							
254T			8-1/4		4-5/16			1-5/8	4			3-3/4							
256T			10		4-5/16			1-5/8	4			3-3/4							
284U	7	5-1/2	9-1/2	17/32	5-1/8	14-5/8	14-5/8	1-5/8	4-7/8	1-1/2	13-1/8	4-5/8	9	10-1/2	4-3/4	1/4	11-1/4	—	1/2-13
286U			11		5-1/8			1-5/8	4-7/8			4-5/8							
284T			9-1/2		4-7/8			1-7/8	4-5/8			4-3/8							
286T			11		4-7/8			1-7/8	4-5/8			4-3/8							
284TS			9-1/2		3-3/8			1-5/8	3-1/4			3							
286TS			11		3-3/8			1-5/8	3-1/4			3							
324U	8	6-1/4	10-1/2	21/32	5-7/8	16-1/2	16-1/2	1-7/8	5-5/8	2	14-1/8	5-3/8	11	12-1/2	5-1/4	1/4	13-3/8	—	5/8-11
326U			12		5-7/8			1-7/8	5-5/8			5-3/8							
324T			10-1/2		5-1/2			2-1/8	5-1/4			5							
326T			12		5-1/2			2-1/8	5-1/4			5							
324TS			10-1/2		3-15/16			1-7/8	3-3/4			3-1/2							
326TS			12		3-15/16			1-7/8	3-3/4			3-1/2							
364U	9	7	11-1/4		6-3/4			2-1/8	6-3/8		18	6-1/8	11	12-1/2	5-7/8	1/4	13-3/8	—	5/8-11
365U			12-1/4		6-3/4			2-1/8	6-3/8		18	6-1/8							
364T			11-1/4	21/32	6-1/4	18-1/2	19-1/2	2-3/8	5-7/8	3	18-1/16	5-5/8							
365T			12-1/4		6-1/4			2-3/8	5-7/8		18-1/16	5-5/8							
364TS			11-1/4		4			1-7/8	3-3/4		18-1/16	3-1/2							
365TS			12-1/4		4			1-7/8	3-3/4		18-1/16	3-1/2							
404U	10	8	12-1/4		7-3/16			2-3/8	7-1/8		19-1/4	6-7/8	11	12-1/2	6-5/8	1/4	13-7/8	—	5/8-11
405U			13-3/4		7-3/16			2-3/8	7-1/8		19-1/4	6-7/8							
404T			12-1/4	13/16	7-5/16	21-5/16	22-1/2	2-7/8	7-1/4	3	19-5/16	7							
405T			13-3/4		7-5/16			2-7/8	7-1/4		19-5/16	7							
404TS			12-1/4		4-1/2			2-1/8	4-1/4		19-5/16	4							
405TS			13-3/4		4-1/2			2-1/8	4-1/4		19-5/16	4							
444U	11	9	14-1/2		8-5/8	24.24	27.57	2-7/8	8-5/8	3	22.68	8-3/8	14	16	7-1/2	1/4	16-3/4	—	5/8-11
445U			16-1/2		8-5/8	24.24	27.57	2-7/8	8-5/8	3	22.68	8-3/8							
444T			14-1/2		8-9/16	24.24	27.57	3-3/8	8-3/8	4	22.68	8-1/4							
445T			16-1/2		8-9/16	24.24	27.57	3-3/8	8-3/8	4	22.68	8-1/4							
447T			20	13/16	8-9/16	24.24	27.57	3-3/8	8-3/8	4	23.86	8-1/4							
449T			25		8-9/16	24.24	27.57	3-3/8	8-1/2	4	23.86	8-1/4							
444TS			14-1/2		4-13/16	24.24	27.57	2-3/8	4-5/8	4	22.68	4-1/2							
445TS			16-1/2		4-13/16	24.24	27.57	2-3/8	4-5/8	4	22.68	4-1/2							
447TS			20		4-13/16	24.24	27.57	2-3/8	4-5/8	4	23.86	4-1/2							
449TS			25		4-13/16	24.24	27.57	2-3/8	4-3/4	4	23.86	4-1/2							

U Frame TS Frame

NEMA Shaft (U)	Keyseat Dimensions (R)	(S)	NEMA Shaft (U)	Keyseat Dimensions (R)	(S)
3/8	21/64	FLAT	1-7/8	1-19/32	1/2
1/2	29/64	FLAT	2-1/8	1-27/32	1/2
5/8	33/64	3/16	2-3/8	2-1/64	5/8
7/8	49/64	3/16	2-1/2	2-3/16	5/8
1-1/8	63/64	1/4	2-7/8	2-29/64	3/4
1-3/8	1-13/64	5/16	3-3/8	2-7/8	7/8
1-5/8	1-13/32	3/8	3-7/8	3-5/16	1

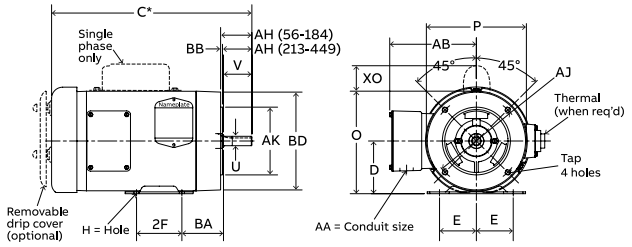


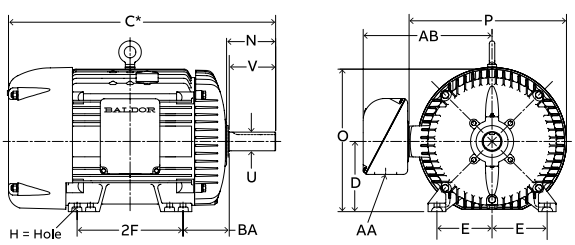
The chart on the next page provides typical legacy Baldor-Reliance motor dimensions. For more exact dimensional data, please check the specific drawing for each catalog number. NEMA states only a minimum value for AA dimension. AA dimensions shown in chart are legacy Baldor-Reliance typical values meeting or exceeding NEMA. Please check motor drawing for actual dimensions.

Frame L449T is not included in this chart. Please refer to the Large AC motor chart, or to the specific motor drawings for L449T dimensions.

Frame	NEMA frames prior to 1953						
	D	E	F	N	U	V	BA
66	4-1/8	2-15/16	2-1/2	2-1/4	3/4	2-1/4	3-1/8
203	5	4	2-3/4	2-7/16	3/4	2	3-1/8
204			3-1/4				
224	5-1/2	4-1/2	3-3/8	3-1/4	1	3	3-1/2
225			3-3/4				
254	6-1/4	5	4-1/8	3-7/16	1-1/8	3-3/8	4-1/4
284	7	5-1/2	4-3/4	4-1/4	1-1/4	3-3/4	4-3/4
324	8	6-1/4	5-1/4	5-3/8	1-5/8	4-1/8	5-1/4
326			6				
364	9	7	5-5/8	5-5/8	1-7/8	5-3/8	5-7/8
365			6-1/8				
404	10	8	6-1/8	6-3/8	2-1/8	6-1/8	6-5/8
405			6-7/8				
444	11	9	7-1/4	7-1/8	2-3/8	6-7/8	7-1/2
445			8-1/4				
504	12-1/2	10	8	8-5/8	2-7/8	8-3/8	8-1/2
505			9				

NEMA C-Face	BA Dimensions
143-5TC	2-3/4
182-4TC	3-1/2
213-5TC	4-1/4
254-6TC	4-3/4





Drawings represent standard TEFC general purpose motors.
*Dimensions are for reference only.

*Contact your local sales office for "C" Dimensions.
Dimensions - N, O, P, AB and XO are specific to Baldor-Reliance*.

Services Contents

Services to match your needs

Your service needs depend on your operations, the life cycle of your equipment, and your business priorities. We have identified our customers' four most common needs, and we created service options to satisfy them. Which will you choose to keep your drives at peak performance?

Is uptime your priority?

Keep your drives running with precisely planned and executed maintenance.

Example services include:
- ABB Ability™ Life Cycle Assessment
- Installation and Commissioning
- Spare Parts
- Preventive Maintenance
- Reconditioning
- ABB Drive Care agreement
- Drive Exchange

Operational efficiency

Is rapid response a key consideration?

If your drives need immediate action, our global network is at your service.

Example services include:
- Technical Support
- On-site Repair
- ABB Ability™ Remote Assistance
- Response time agreements
- Training

Rapid response

Drives service
Your choice, your future

The longevity of your drives is influenced by the service you choose.
Whatever you choose, it should be a well-informed decision. We have the expertise and experience to help you find and implement the right service for your drive equipment. Start by asking yourself these two critical questions:
- Why would my drive be serviced?
- What would my optimal service options be?

From here, count on our guidance and full support throughout the entire lifetime of your drives.

Your choice, your business efficiency
ABB Drive Care lets you focus on your core business. A selection of predefined service options matching your needs provides optimal, more reliable performance, extends your drive's lifetime, and controls costs. This reduces the risk of unplanned downtime and makes it easier to budget for maintenance.

We can help you more if we know where you are!
Register your drive for advanced services.

Need to extend your assets' lifetime?

Maximize the lifetime of your drive with our services.

Example services include:
- ABB Ability™ Life Cycle Assessment
- Upgrades, Retrofits and Modernization
- Replacement, Disposal and Recycling

Life cycle management

Is performance most critical to your operation?

Get optimal performance out of your machinery and systems.

Example services include:
- ABB Ability™ Remote Services
- Engineering and Consulting
- Inspection and Diagnostics
- Upgrades, Retrofits and Modernization
- Workshop Repair
- Tailored services

Performance improvement

A lifetime of peak performance

You're in control of every phase of the life of your drive. At the heart of drive services is a four-phase product life cycle management model. This model defines the services recommended and available throughout your drive's lifespan.

Now it's easy for you to see the exact service and maintenance available for your drives.

ABB drives life cycle phases explained:

	Full range of life cycle services and support		Limited range of life cycle services and support	Replacement and end-of-life services
Product	Product is in active sales and manufacturing phase.	Serial production has ceased. Product may be available for plant extensions, as a spare part or for installed base renewal.	Product is no longer available.	Product is no longer available.
Services	Full range of life cycle services is available.	Full range of life cycle services is available. Product enhancements may be available through upgrade and retrofit solutions.	Limited range of life cycle services is available. Spare parts availability is limited to available stock.	Replacement and end-of-life services are available.

Keeping you informed
We notify you every step of the way using life cycle status statements and announcements.

The benefit for you is clear information about the status of your drives and the exact services available. It helps you plan the preferred service actions ahead of time and make sure that continuous support is always available.

Step 1

Life Cycle Status Announcement
Provides early information about the upcoming life cycle phase change and how it affects the availability of services.

Step 2

Life Cycle Status Statement
Provides information about the drive□s current life cycle status, the availability of product and services, the life cycle plan, and recommended actions.

Notes

Notes

Notes

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For more information, please contact your local ABB representative or visit

new.abb.com/drives/HVAC
locator.abbnow.com
abb.com/motors-generators
www.baldor.com/brands/baldor-reliance/products/motors/ac-motors/hvac

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