

XP Series Pre-Wired Factory Sealed Circuit Breaker Panelboards

Explosionproof, Dust-Ignitionproof System

NEC/CEC:

Class I, Division 2, Groups B, C, D
Class I, Zone 1 and 2, Groups IIB + H₂
Class II, Division 1 and 2, Groups E, F, G
Class III

CEC:

EMR Canada approved
NEMA/IEE MAC 3, 4, 4X, 7BCD, 9EFG, 12
IP66

Applications

- Protection and control of electrical apparatus and circuits in hazardous environments, either indoor or outdoor. Designed for Class I, Division 2 areas where flammable gases or vapors are present under abnormal circumstances.
- For use with lighting or heat tracing circuits.

Features

- Wiring from branch circuit breakers in the panelboard to the terminal blocks in the terminal enclosure are factory sealed, eliminating the need of labour intensive field wiring and use of sealing fittings.
- Exclusive rotary-slide circuit breaker operators have positive action and will align with breakers in ON or OFF position when cover is being closed.
- Design allows breaker to be locked in ON or OFF position. Will not prevent breaker from tripping.
- Conduit entries in top or bottom positioned terminal enclosure can be either field installed or factory installed to customer requirements.
- Four sizes of panelboards available.
- Copper phase bus bars.
- Furnished with bolt on breakers.
- Removable hinged cover gives unobstructed access to interior. Left hand hinges are standard. Right hand hinges are available.
- Detailed marking is plainly visible for easy circuit identification.
- Installation is easy with keyhole mounting lugs to simplify mounting.

Standard Materials

- Panelboard enclosure and cover: copperfree (4/10 of 1% max.) aluminum
- Operator shafts, cover bolts and fasteners: stainless steel
- Operator knobs: aluminum alloy
- Terminal enclosure: 304 stainless steel
- Standard branch circuit breakers type BAB, 1-, 2- or 3-pole. 10,000 RMS symmetrical (240 Volt Max.)
- Standard branch circuit breakers type GHB, 1-, 2- or 3-pole. 10,000 RMS symmetrical interrupting capacity (80 Volt).
- Standard branch circuit breakers type GBH, 1-, 2- or 3-pole. 10,000 RMS symmetrical interrupting capacity (347/600 Volt).
- F-Frame available in 480 and 600 Volts. Interrupting capacity up to 65,000 RMS symmetrical available. Consult your local representative

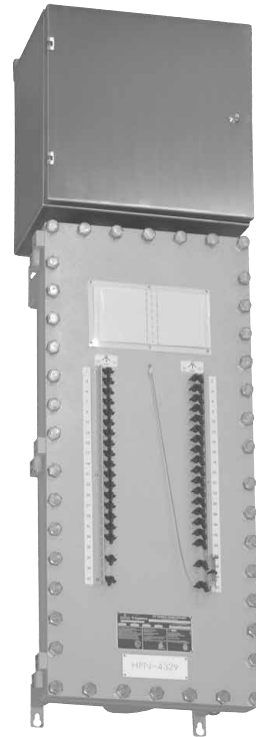
Standard Finish

- Epoxy powder coat electrostatically applied

Options

Must be listed in alphanumeric sequence at the end of the catalog number.

- Breather and drain sets, add suffix **-BD**.
- Ferrous alloy, add suffix **-F**.
- 5 ma GFI people protector (40 Amp Max., 1- or 2-Pole only), add suffix **-GF5**.
- 30 mA EPD Equipment Protector (30 Amp Max., 1- or 2-Pole only), add suffix **-GF10**.
- 30 mA with alarm circuit, add suffix **-GFA10**.
- Grounded neutral lug, add suffix **-GNL**.
- Heater c/w thermostat, add suffix **-HTR**.
- Bottom feed, add suffix **-INV**.
- Breaker ON-OFF indicator Light (LED), add suffix **-IL**.



- Operator cover, add suffix **-OC**.
- Cover hinge on right hand side, add suffix **-RH**.
- CSA type 4X enclosure, add suffix **-4X**.
- Main Breaker Options
 - Auxiliary switch (1A or 1B) add suffix **-AS1**.
 - Auxiliary switch (2A or 2B) add suffix **-AS2**.
 - Shunt trip (specify voltage) add suffix **-ST**.
 - Under voltage release (specify voltage) add suffix **-UV**.
 - For +50 °C (+122 °F) breaker rating, add suffix **-V**.
- Lighting contactor 30Amps, 3Poles - 12poles. Contact your local representative.
- High AIC rating F-Frame breakers available. Contact your local representative.
- For dc rating consult your local representative.
- 316L stainless steel terminal enclosure available. Contact your local representative.
- Division I version available. Comes with cast aluminum terminal enclosure. Contact your local representative.

NEC/CEC Certifications and Compliances

- UL Standard: UL 67, UL 1203
- cUL Certified: 039199
- CSA Standard: C22. 2 No. 25, C22.2 No. 29, C22.2 No. 30
- CSA Certified: 039199

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Catalog Numbering Guide

| <p>XP</p> <p>Series: XP - Factory Sealed</p> | <p>B</p> | <p>1</p> | <p>100</p> | <p>2</p> | <p>PL</p> | <p>25</p> | <p>10</p> | <p>15</p> | <p>1</p> | <p>GF5</p> | <p>▲</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------|--|-------------------|---|------------------|---|-----------------------|---|-----------------|---|-----------------|-----|----|----|----|----|---------|--|--|--|----|---------|--|--|--|----|---------|--|--|--|----|--------------------------|--|--|--|--|-----|---|----|----|----|---------|--|--|--|----|---------|--|--|--|----|---------|--|--|--|----|--|--|--|--|---|--|--|--|--|--|
| | | <p>Main Amp Bus: 100 - 100 225 - 225</p> | | <p>Main Required: PL - Main lugs only PB - Main Breaker PR - Reverse Feed</p> | | <p>Main Breaker Ampere Rating: 020 - 20AT 025 - 25AT 030 - 30AT 040 - 40AT 050 - 50AT 060 - 60AT 070 - 70AT 080 - 80AT 090 - 90AT 100 - 100AT 110 - 110AT 125 - 125AT 150 - 150AT 175 - 175AT 200 - 200AT 225 - 225AT</p> | | <p>Poles ①: 1 - 1 2 - 2 3 - 3</p> | | <p>Suffix for Other Options/Features: Must be listed in alphanumeric sequence (See Options)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Size:</p> <table border="1"> <thead> <tr> <th>Volts</th> <th>A</th> <th>B</th> <th>C</th> <th>E</th> </tr> </thead> <tbody> <tr> <td colspan="5">Main Lugs Only</td> </tr> <tr> <td>240</td> <td>12</td> <td>24</td> <td>42</td> <td>48</td> </tr> <tr> <td>277/480</td> <td></td> <td></td> <td></td> <td>42</td> </tr> <tr> <td>347/600</td> <td></td> <td></td> <td></td> <td>42</td> </tr> <tr> <td>480/600</td> <td></td> <td></td> <td></td> <td>42</td> </tr> <tr> <td colspan="5">With Main Breaker</td> </tr> <tr> <td>240</td> <td>6</td> <td>18</td> <td>36</td> <td>42</td> </tr> <tr> <td>277/480</td> <td></td> <td></td> <td></td> <td>42</td> </tr> <tr> <td>347/600</td> <td></td> <td></td> <td></td> <td>42</td> </tr> <tr> <td>480/600</td> <td></td> <td></td> <td></td> <td>36</td> </tr> </tbody> </table> | | Volts | A | B | C | E | Main Lugs Only | | | | | 240 | 12 | 24 | 42 | 48 | 277/480 | | | | 42 | 347/600 | | | | 42 | 480/600 | | | | 42 | With Main Breaker | | | | | 240 | 6 | 18 | 36 | 42 | 277/480 | | | | 42 | 347/600 | | | | 42 | 480/600 | | | | 36 | <p>Phases: 1 - 1-Phase 3 - 3-Phase</p> | | <p>Voltage: 2 - 120/240, 120/208 4 - 277/480Y (GHB only) 6 - 347/600Y (GBH only) 7 - 480 (F-Frame only) 8 - 600 (F-Frame only)</p> | | <p>Quantity of Branch Breakers ①: 1 thru 48</p> | | <p>Type of Breaker ①: Blank - BAB Standard Branch Breaker GF5 - 5 ma GFI breaker protector (40 Amp Max., 1- or 2-Pole only) GF10 - 30 mA EPD Equipment Protector (30 Amp Max., 1- or 2-Pole only) GFA10 - 30 mA With Alarm Circuit</p> | | <p>Additional Branch Breakers: Repeat Step ①</p> | |
| Volts | A | B | C | E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Main Lugs Only | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240 | 12 | 24 | 42 | 48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 277/480 | | | | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 347/600 | | | | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 480/600 | | | | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| With Main Breaker | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240 | 6 | 18 | 36 | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 277/480 | | | | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 347/600 | | | | 42 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 480/600 | | | | 36 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | <p>Ampere Rating ①: 10 - 10AT 15 - 15AT 20 - 20AT 25 - 25AT 30 - 30AT 35 - 35AT 40 - 40AT 45 - 45AT 50 - 50AT 60 - 60AT 70 - 70AT 80 - 80AT (not for 1-Pole) 90 - 90AT (not for 1-Pole) 100 - 100AT 110 - 110AT (2-, 3-Pole, 480, 600 Only) 125 - 125AT (2-, 3-Pole, 480, 600 Only) 150 - 150AT (2-, 3-Pole, 480, 600 Only) 175 - 175AT (2-, 3-Pole, 480, 600 Only) 200 - 200AT (2-, 3-Pole, 480, 600 Only)</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

DISTRIBUTION EQUIPMENT: NEC/CEC HAZARDOUS LOCATION PANELBOARDS



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| Max. No. of Circuits ① | Panel Size | 1-Phase 120/240 Vac | | 3-Phase 120/208 Vac | |
|--------------------------------|------------|---------------------|------------|---------------------|------------|
| | | 100 Amps | 225 Amps | 100 Amps | 225 Amps |
| Main Lugs Only | | | | | |
| 12 | A | XPA11002PL | XPA12252PL | XPA31002PL | XPA32252PL |
| 24 | B | XPB11002PL | XPB12252PL | XPB31002PL | XPB32252PL |
| 42 | C | XPC11002PL | XPC12252PL | XPC31002PL | XPC32252PL |
| 48 | E | XPE11002PL | XPE12252PL | XPE31002PL | XPE32252PL |
| Main Breaker Panelboard | | | | | |
| 6 | A | XPA11002PB | XPA12252PB | XPA31002PB | XPA32252PB |
| 18 | B | XPB11002PB | XPB12252PB | XPB31002PB | XPB32252PB |
| 36 | C | XPC11002PB | XPC12252PB | XPC31002PB | XPC32252PB |
| 42 | E | XPE11002PB | XPE12252PB | XPE31002PB | XPE32252PB |

Reverse Feed Main Breaker Panelboard

| Max. No. of Circuits ① | Panel Size | 100 Amps | |
|------------------------|------------|---------------------|---------------------|
| | | 1-Phase 120/240 Vac | 3-Phase 120/208 Vac |
| 12 | A | XPA11002PR | XPA31002PR |
| 24 | B | XPB11002PR | XPB31002PR |
| 42 | C | XPC11002PR | XPC31002PR |
| 48 | E | XPE11002PR | XPE31002PR |

Main Breaker ②

4-pole main breaker available, contact your local representative.

| | Suffix | Amp Rating | Breaker Type | Amps I.R./240 Vac Max. |
|------------------|--------|------------|--------------|------------------------|
| Standard Breaker | 05 | 50 | | |
| | 07 | 70 | FDB | 18,000 |
| | 10 | 100 | | |
| | 17 | 175 | | |
| | 20 | 200 | FD | 65,000 |
| Reversed Breaker | 22 | 225 | | |
| | 05 | 50 | | |
| | 07 | 70 | BAB | 10,000 |
| | 10 | 100 | | |

① 18 and 30 circuit panelboards available. Contact your local representative.

② Other Main Breaker Ampere ratings available. Contact your local representative.

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| Max. No. of Circuits ① | Panel Size | 3-Phase 277/480 Vac, GHB Only | | 3-Phase 347/600 Vac, GBH Only | |
|--|------------|-------------------------------|------------|-------------------------------|------------|
| | | 100 Amps | 225 Amps | 100 Amps | 225 Amps |
| Main Lugs Only – 3 Phase, 4 Wire | | | | | |
| 42 | E | XPE31004PL | XPE32254PL | XPE31006PL | XPE32256PL |
| Main Breaker Panelboard – 3 Phase, 4 Wire | | | | | |
| 42 | E | XPE31004PB | XPE32254PB | XPE31006PB | XPE32256PB |

| Max. No. of Circuits ① | Panel Size | 3-Phase 480 Vac, F-Frame Only | | 3-Phase 600 Vac, F-Frame Only | |
|--|------------|-------------------------------|------------|-------------------------------|------------|
| | | 100 Amps | 225 Amps | 100 Amps | 225 Amps |
| Main Lugs Only – 3 Phase, 3 Wire | | | | | |
| 42 | E | XPE31007PL | XPE32257PL | XPE31008PL | XPE32258PL |
| Main Breaker Panelboard – 3 Phase, 3 Wire | | | | | |
| 36 | E | XPE31007PB | XPE32257PB | XPE31008PB | XPE32258PB |

Main Breaker ②

| | Suffix | Amp Rating | Breaker Type |
|-------------------------|--------|------------|--------------|
| Standard Breaker | 05 | 50 | FDB |
| | 07 | 70 | |
| | 10 | 100 | |
| | 15 | 150 | FD |
| | 17 | 175 | |
| | 20 | 200 | |
| | 22 | 225 | |

① 12, 24 and 30 circuit panelboards available. Contact your local representative.

② Other Main Breaker Ampere ratings available. Contact your local representative.



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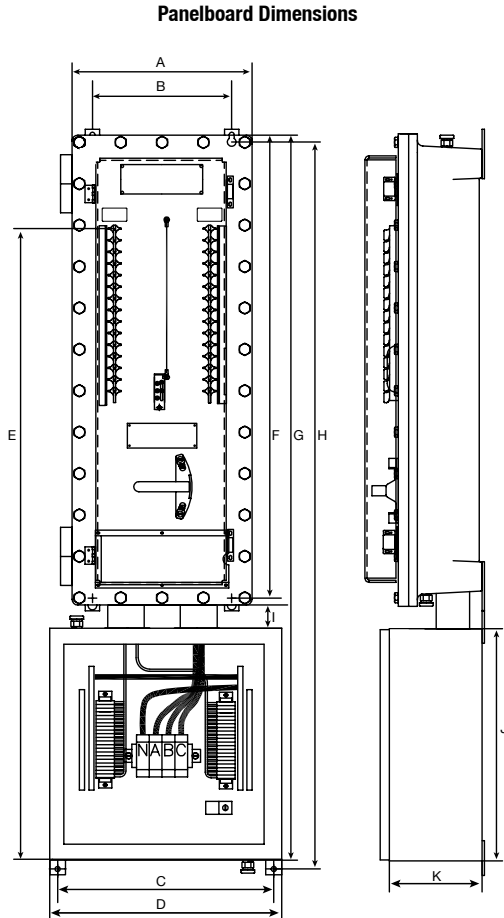
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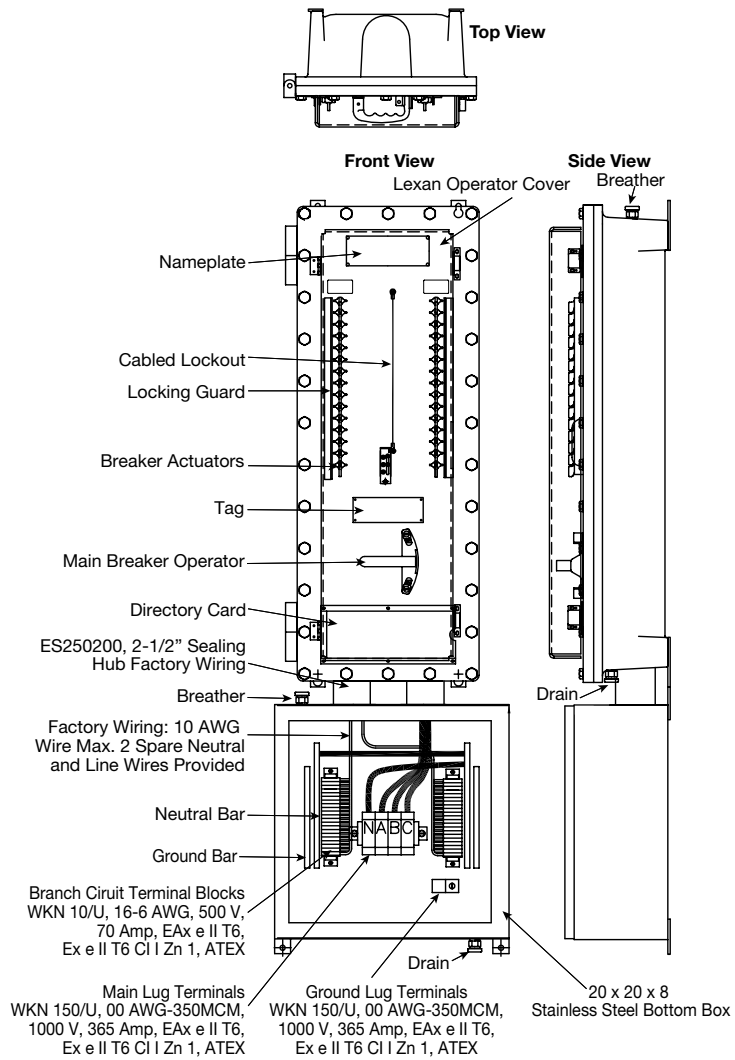
DISTRIBUTION EQUIPMENT: NEC/CEC HAZARDOUS LOCATION PANELBOARDS

Appleton®

Dimensions in Millimeters (Inches)



Illustrated Panelboard



| Panel Size | Dimensions in Millimeters (Inches) | | | | | | | | | | |
|------------|------------------------------------|------------------|------------------|------------------|--------------------|-------------------|-------------------|-------------------|----------------|------------------|-----------------|
| | A | B | C | D | E | F | G | H | I | J | K |
| A | 393.7 (15.50) | 304.8 (12.00) | 371.6 (14.63) | 406.4 (16.00) | 810.2 (31.90) | 576.3 (22.69) | 1003.3 (39.50) | 1058.1 (41.66) | 50.8 (2.00) | 406.4 (16.00) | 203.2 (8.00) |
| B | 393.7 (15.50) | 304.8 (12.00) | 371.6 (14.63) | 406.4 (16.00) | 1013.4 (39.90) | 785.8 (30.94) | 1206.5 (47.50) | 1261.3 (49.66) | 50.8 (2.00) | 406.4 (16.00) | 203.2 (8.00) |
| C | 393.7 (15.50) | 304.8 (12.00) | 473.2 (18.63) | 508.0 (20.00) | 1380.4 (54.35v) | 1014.4 (39.94) | 1663.7 (62.50) | 1591.1 (62.65) | 50.8 (2.00) | 508.0 (20.00) | 203.2 (8.00) |
| E | 495.3 (19.50) | 400.0 (15.75) | 473.2 (18.63) | 508.0 (20.00) | 1483.6 (58.41) | 1155.7 (45.50) | 1715.0 (67.54) | 1719.0 (67.68) | 50.8 (2.00) | 508.0 (20.00) | 203.2 (8.00) |