

AE Series Bolted Circuit Breakers and Enclosures

Explosionproof, Dust-Ignitionproof, Watertight

2- and 3-Pole, Non-Interchangeable Trip. Bolted Enclosure Type.

NEC/CEC:

Class I, Division 1 and 2, Groups B, C, D

Class II, Division 1 and 2, Groups E, F, G

Class III

NEMA 4, 4X

Application

- Explosionproof circuit breaker enclosures are used where hazardous materials are handled or stored.
- These units are used for overload and short circuit protection, control of lighting and power circuits.

Features

- Precision machined flame path between box and cover.
- Bolt on stainless steel slotted mounting feet.
- Stainless steel, captive Quad-Lead® cover bolts are standard (disengaged in 1-1/2 turns).
- Ground lug package and installation instructions for termination of ground wire enclosed.
- External operating handle with stops for limiting handle travel.
- Breaker operators can be locked in the ON or OFF position (up to 3 padlocks).
- External flange maximizes internal space.
- Standard outlets top and bottom for line and load wiring.
- Plugged 1/2" outlets top and bottom for breather and drain.
- Breakers mounted on a galvanized steel removable pan.
- Enclosures are designed to accept GE®, Square D®, and Cutler-Hammer † circuit breakers.
- O-ring gasket insures watertight integrity.

Standard Materials

- Bodies and covers: copperfree (4/10 of 1% max.) aluminum
- Cover bolts, hinges, breaker and operator shafts: stainless steel
- Hinges: stainless steel
- O-ring: neoprene

Standard Finishes

- Bodies and covers: gray epoxy powder coat inside and outside standard

Options

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

- Auxiliary switch (1NC, 1NO), add suffix —**AS1**.
- Auxiliary switch (2NC, 2NO), add suffix —**AS2**.
- Breather, NEMA 4X (includes outlet and installation), add suffix —**BR**.
- Drain, NEMA 4X (includes outlet and installation), add suffix —**DN**.
- External grounding stud, add suffix —**EGS**.
- Plastic nameplate, 2" x 4", 1/8" black letters on white surface, 3 lines max, specify legend, add suffix —**NP**.
- 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**.

NEC/CEC Certifications and Compliances

- UL Standard: UL 1203
- UL Classified: E84577
- CSA Standard: C22.2 No. 0, C22.2 No. 4, C22.2 No. 5, C22.2 No. 25, C22.2 No. 30
- CSA Certified (800A Max): 150757



► GE is a registered trademark of General Electric Company.

■ Square D is a registered trademark of Schneider Electric.

† Cutler-Hammer is a registered trademark of Eaton Corporation.

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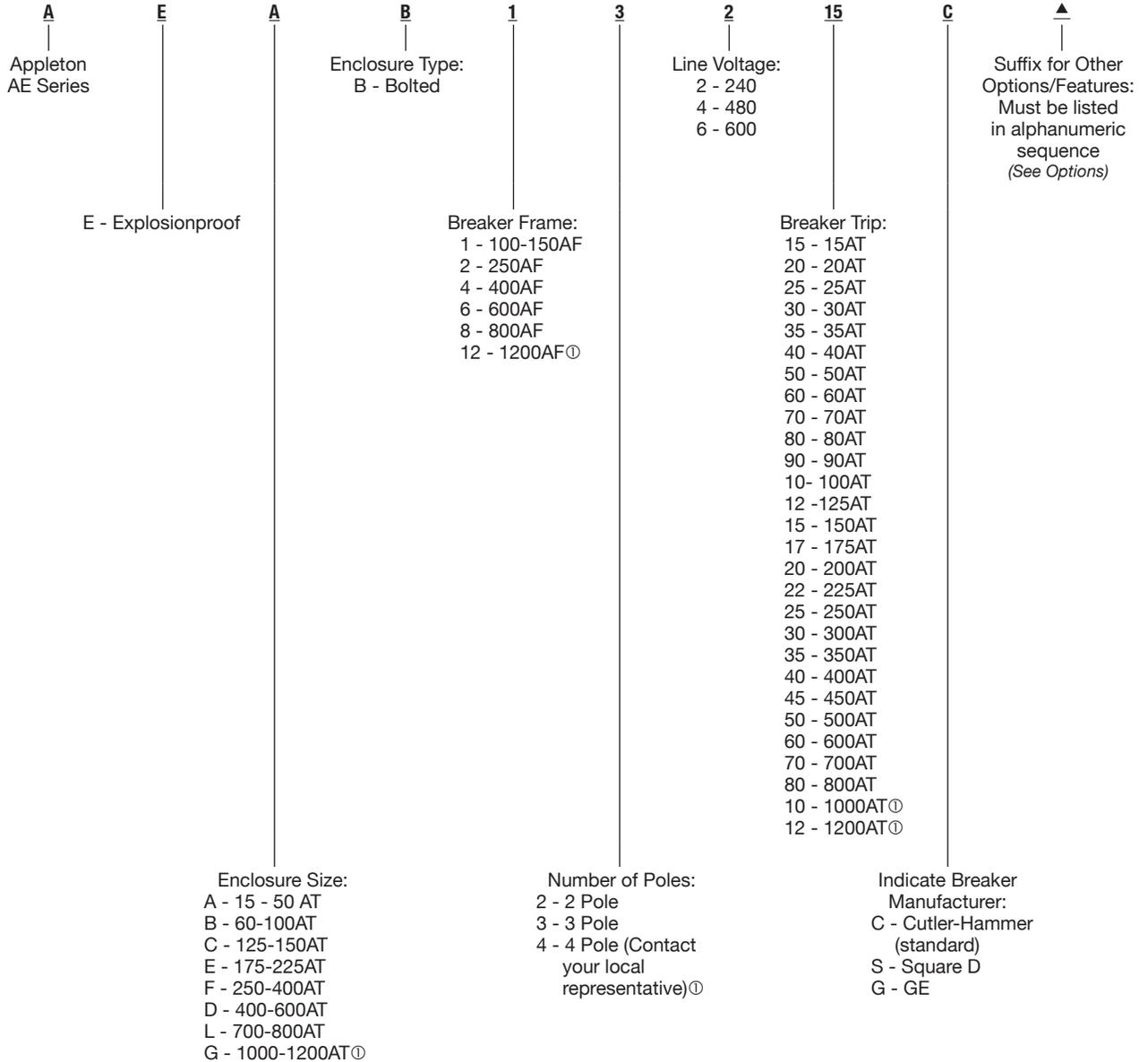
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Class III

NEMA 4, 4X

Catalog Numbering Guide



DISTRIBUTION EQUIPMENT: NEC/CEC EXPLOSIONPROOF CIRCUIT BREAKERS



^① UL Classified. NEC Certification only.

[▲] To complete the catalog number please add the appropriate suffix for other options/features. These suffixes can be found in the modifications table in this section.

AE Bolted Circuit Breaker Enclosure

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Dimensions in Millimeters (Inches)

Diagram 3—Enclosure Layout for 800 Amp (Size: L)

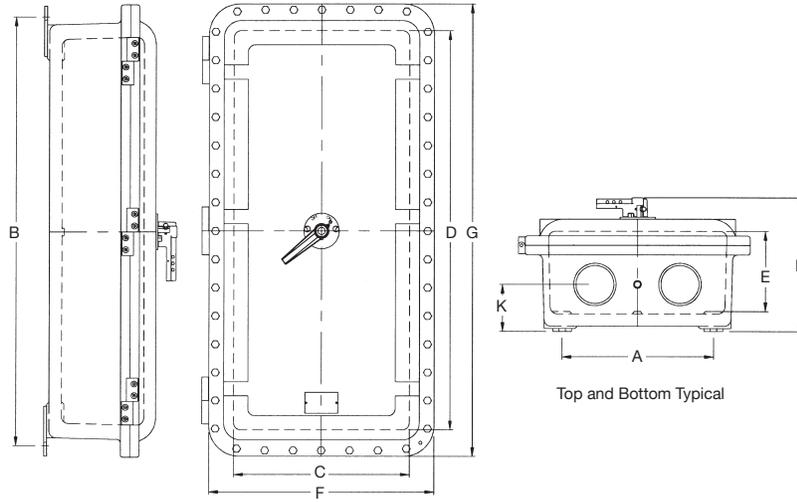
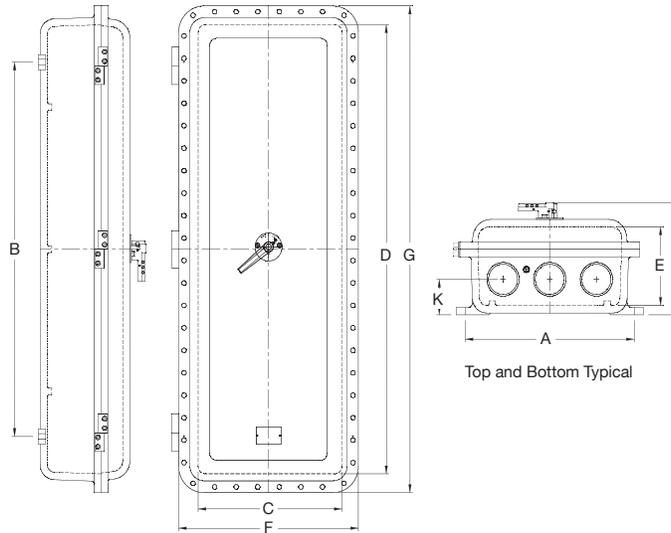


Diagram 4—Enclosure Layout for 1200 Amp (Size: G)



Enclosure Only

| Enclosure Size | Catalog Number | Dia. Number | Dimensions in Millimeters (Inches) | | | | | | | | | Outlet Size (in) | Number of Outlets | Dimension mm (in) K | Approximate Weight kgs (lbs) |
|----------------|----------------|-------------|------------------------------------|-------------------|------------------|-------------------|------------------|-------------------|--------------------|-------------------|---|------------------|-------------------|---------------------|------------------------------|
| | | | Mounting | | Inside | | | | Outside | | | | | | |
| | | | A | B | C | D | E | F | G | H | | | | | |
| L | AELB | 3 | 406.4 (16.00) | 1152.6 (45.38) | 473.2 (18.63) | 1073.1 (42.25) | 215.9 (8.50) | 606.55 (23.88) | 1216.15 (47.88) | 287.27 (11.31) | 4 | 4 | 127.0 (5.00) | 190.06 (419) | |
| G ^① | AEGB | 4 | 543.1 (21.38) | 1270.0 (50.00) | 508.0 (20.00) | 1524.0 (60.00) | 254.0 (10.00) | 635.0 (25.00) | 1651 (65.00) | 317.5 (12.5) | 4 | 6 | 111.2 (4.38) | 257.19 (567) | |

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