

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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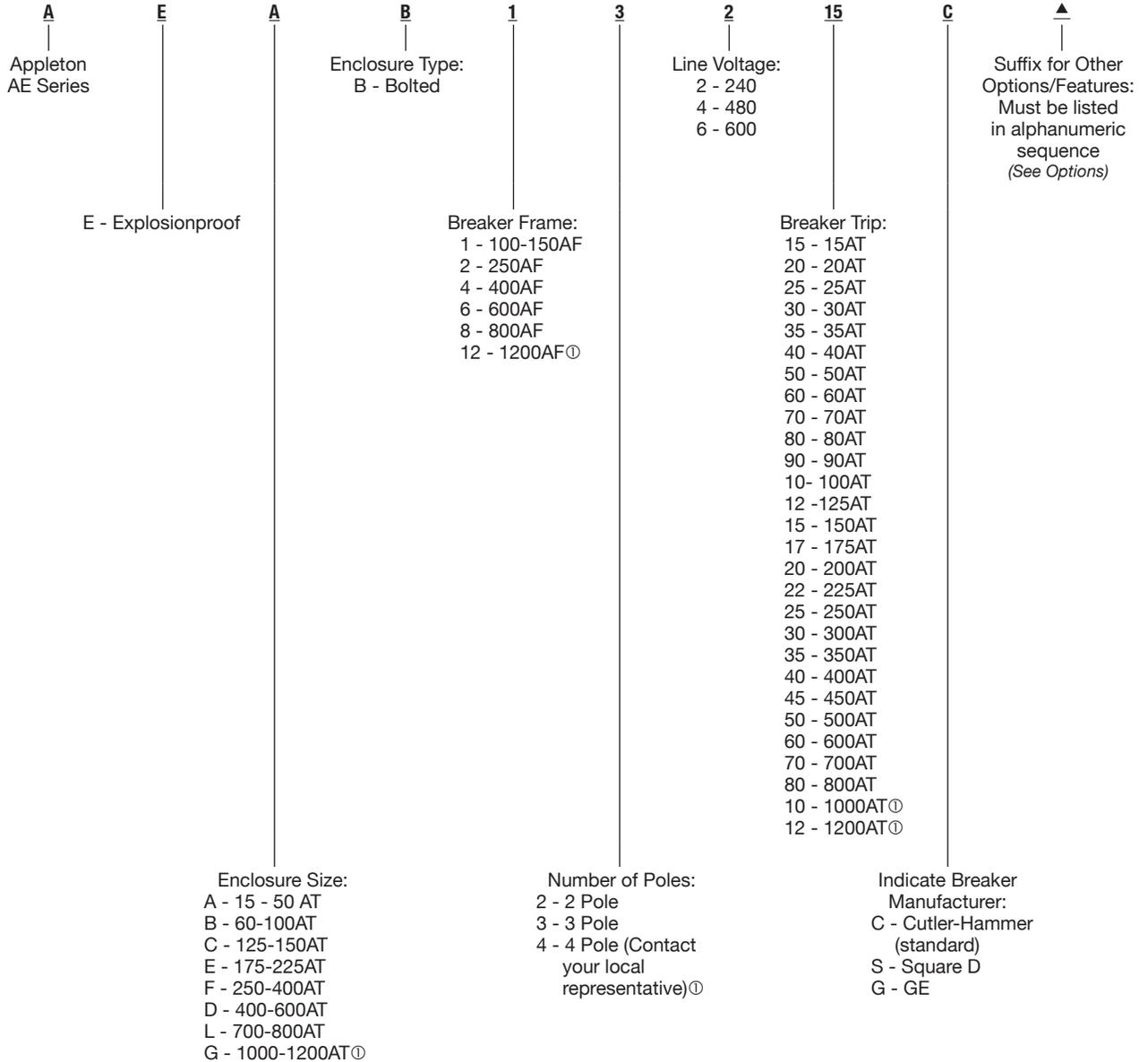
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Class III

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 1—Enclosure Layout for 50 - 250 Amp (Sizes: A - B - C - E)

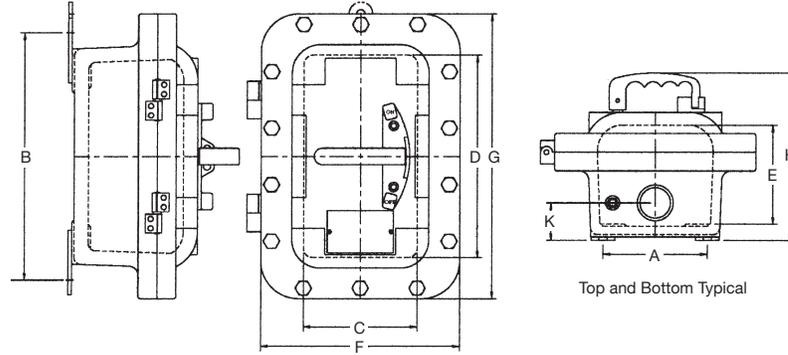
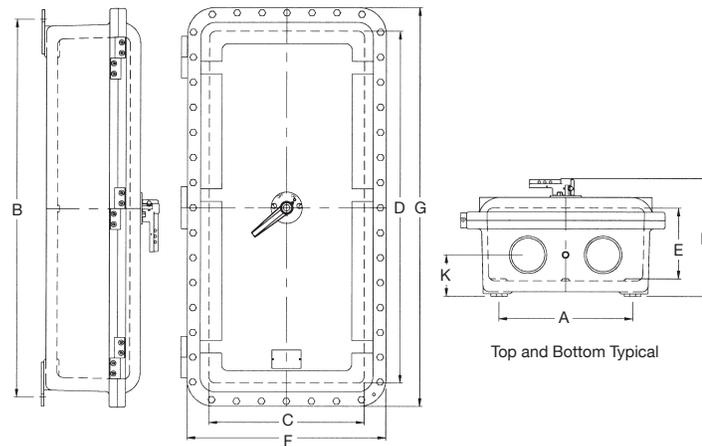


Diagram 2—Enclosure Layout for 400 - 600 Amp (Sizes: F - D)



Enclosure Only

Enclosure Size	Catalog Number	Dia. Number	Dimensions in Millimeters (Inches)								Outlet Size (in)	Number of Outlets	Dimension mm (in)	Approximate Weight kgs (lbs)
			Mounting		Inside			Outside						
			A	B	C	D	E	F	G	H			K	
A	AEAB	1	139.7 (5.50)	333.5 (13.13)	155.7 (6.13)	273.0 (10.75)	133.3 (5.25)	266.7 (10.5)	384.3 (15.3)	165.1 (6.5)	1-1/2	2	50.8 (2.00)	17.24 (38)
B	AEBB	1	152.4 (6.00)	457.2 (18.00)	165.1 (6.50)	406.4 (16.00)	139.7 (5.50)	279.4 (11.00)	502.7 (20.5)	168.4 (6.63)	2	2	58.6 (2.31)	25.85 (57)
C	AECB	1	260.3 (10.25)	574.8 (22.63)	289.0 (11.38)	508.0 (20.00)	162.0 (6.38)	408.94 (16.1)	622.3 (24.5)	206.5 (8.13)	2-1/2	2	88.9 (3.50)	47.17 (104)
E	AEEB	1	215.9 (8.50)	689.1 (27.13)	285.7 (11.25)	758.9 (29.88)	183.8 (7.63)	400.05 (15.75)	746.25 (29.38)	239.77 (9.44)	3	2	101.6 (4.00)	65.77 (145)
F	AEFB	2	241.3 (9.50)	692.1 (27.25)	285.7 (11.25)	758.9 (29.88)	204.7 (8.06)	416.05 (16.381)	889.0 (35.00)	257.3 (10.13)	3	4	106.4 (4.19)	77.11 (170)
D	AEDB	2	409.7 (16.13)	1035.0 (40.75)	457.2 (18.00)	1079.5 (42.50)	193.8 (7.63)	457.2 (18.00)	520.7 (42.5)	250.95 (9.88)	4	4	109.4 (4.31)	103.42 (228)

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