

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®, Siemens+ 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): 1324917



► 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.

+ Siemens is a registered trademark of Siemens AG.

AE Series Bolted Circuit Breakers and Enclosures

Explosionproof, Dust-Ignitionproof, Watertight

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

NEC/CEC:

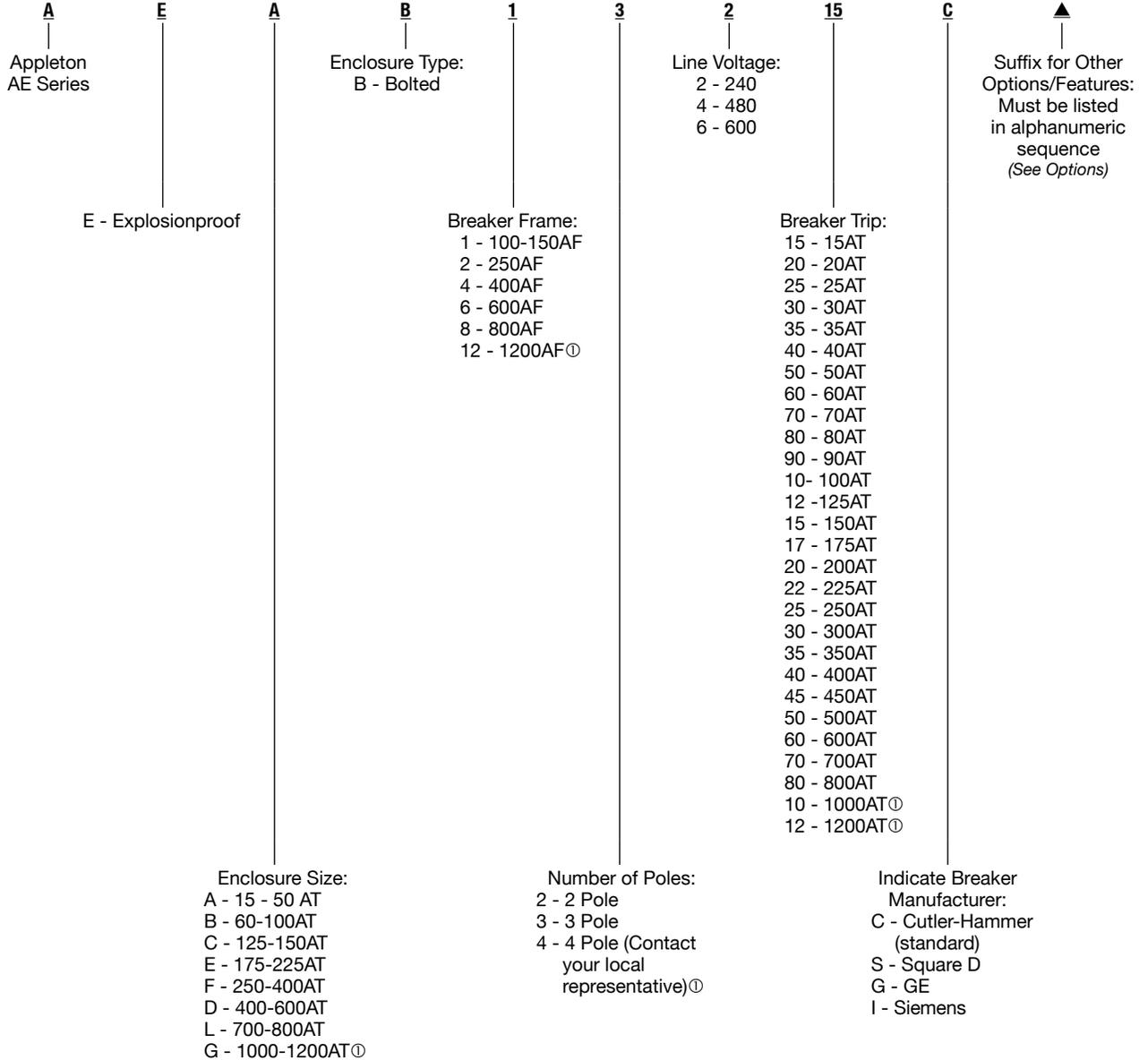
Class I, Division 1 and 2, Groups B, C, D

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

Class III

NEMA 4, 4X

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 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

Circuit Breaker Interrupting Ratings (Symmetrical RMS Amps)

Breaker Type	240 Vac	480 Vac	600 Vac
Cutler-Hammer ⁺			
EHD	18,000	14,000	—
FD	65,000	35,000	18,000
HFD	100,000	65,000	25,000
JD	65,000	35,000	18,000
HJD	100,000	65,000	25,000
KD	65,000	35,000	25,000
HKD	100,000	65,000	35,000
LD	65,000	35,000	22,000
HLD	100,000	65,000	35,000
MDL	65,000	50,000	25,000
HMDL	100,000	65,000	35,000
ND	65,000	50,000	25,000
HND	100,000	65,000	35,000
GE [▶]			
TED	18,000	18,000	14,000
THED	65,000	25,000	18,000
TFK	25,000	22,000	18,000
THFK	65,000	25,000	18,000
TJK4	42,000	30,000	22,000
THJK4	65,000	35,000	25,000
TJK6	42,000	30,000	22,000
THJK6	65,000	35,000	25,000
TKM8	42,000	30,000	22,000
THKM8	65,000	35,000	25,000
TKM12	42,000	30,000	22,000
THKM12	65,000	35,000	25,000

DISTRIBUTION EQUIPMENT: NEC/CEC EXPLOSIONPROOF CIRCUIT BREAKERS



▶ GE is a registered trademark of General Electric Company.
 + Cutler-Hammer is a registered trademark of Eaton Corporation.



AE Bolted Circuit Breaker Enclosure

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

Dimensions in Millimeters (Inches)

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

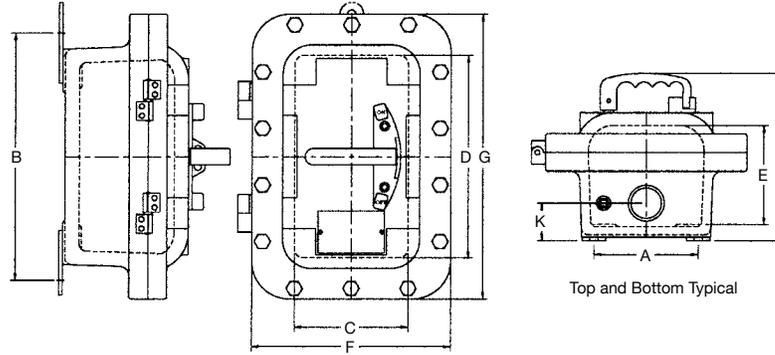
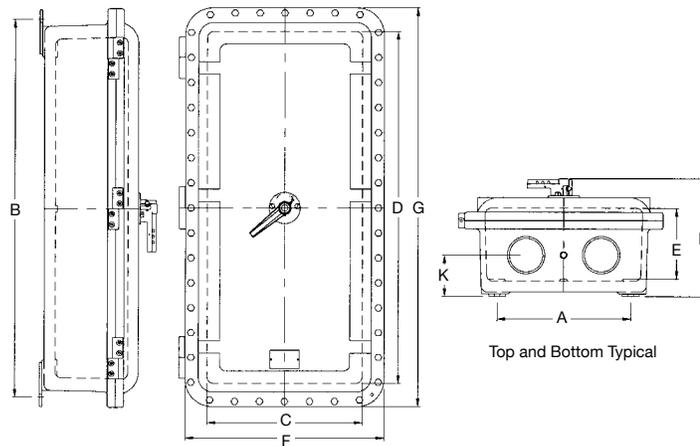


Diagram 2—Enclosure Layout for 400 - 600 Amp (Sizes: F - D)



Enclosure Only

Enclosure Size	Catalog Number	Dia. Number	Dimensions in Millimeters (Inches)								Outlet Size (in)	Number of Outlets	Dimension mm (in) K	Approximate Weight kgs (lbs)
			Mounting		Inside			Outside						
			A	B	C	D	E	F	G	H				
A	AEAB	1	139.7 (5.50)	333.5 (13.13)	155.7 (6.13)	273.0 (10.75)	133.3 (5.25)	270.0 (10.63)	387.3 (15.25)	224.5 (8.84)	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)	520.7 (20.50)	227.8 (8.97)	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)	406.4 (16.00)	638.3 (25.13)	243.5 (9.59)	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)	406.4 (16.00)	749.3 (29.50)	311.9 (12.28)	2	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)	416.0 (16.38)	889.0 (35.00)	313.4 (12.34)	4	2	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)	346.2 (13.63)	962.1 (37.88)	325.3 (12.81)	4	2	109.4 (4.31)	103.42 (228)

DISTRIBUTION EQUIPMENT: NEC/CEC EXPLOSIONPROOF CIRCUIT BREAKERS

