

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.
- 2- and 3-pole versions are standard. For 4-pole versions, contact your local representative.

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 (1A or 1B), add suffix —**AS1**.
- Auxiliary switch (2A or 2B), 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**.
- For UL Listed Circuit Breakers with 65,000 AIC rating, contact your local sales representative.



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.

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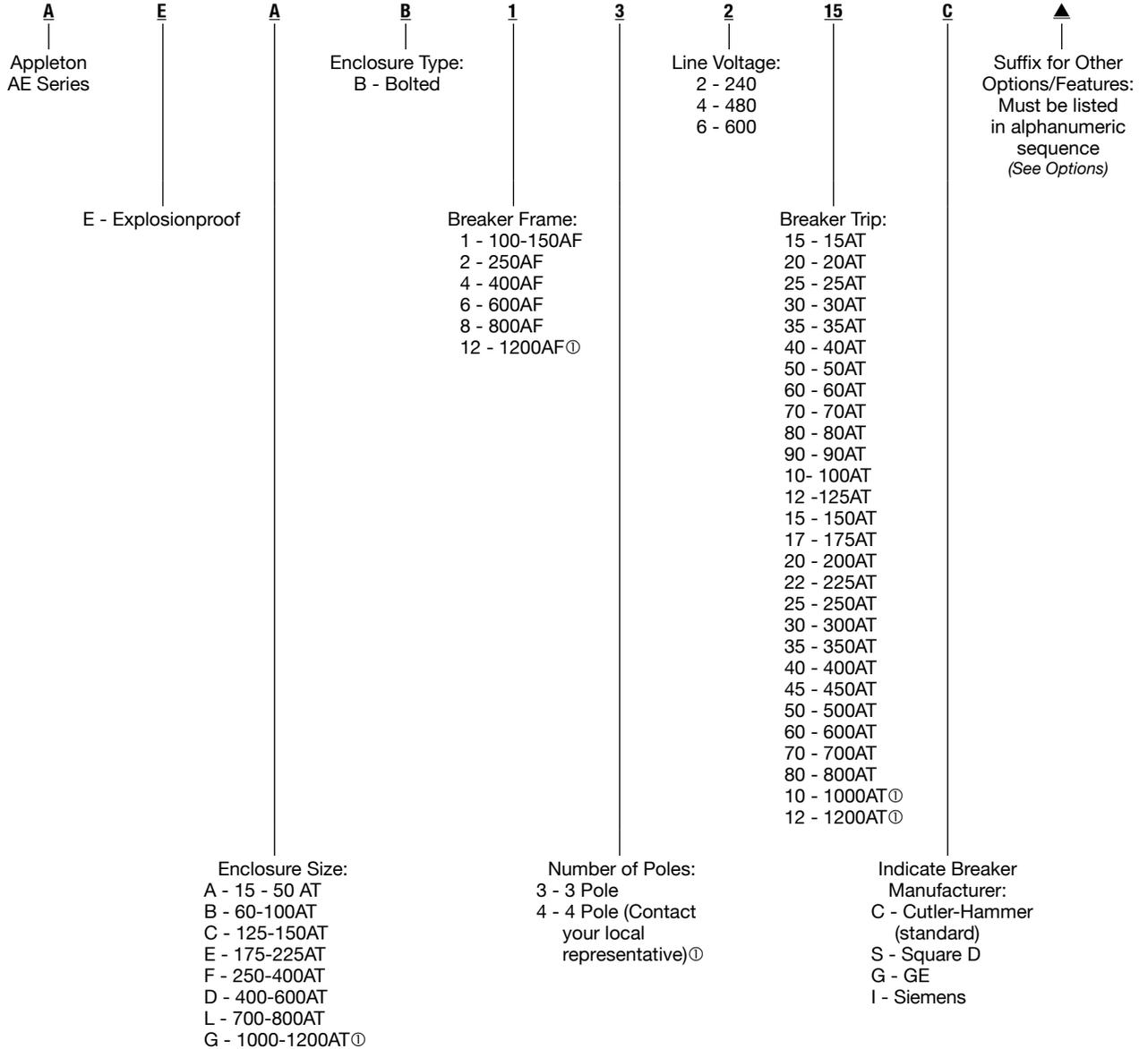
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NEMA 4, 4X

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.

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Breaker Frame Size	Breaker Type/ Interrupting Capacity ②	Volts	Amp Rating	Catalog Numbers ③ ▲		Standard Conduit Outlets (Inches)
				2-Pole	3-Pole	
250	JD 18,000 AIC @ 600 Vac JD 35,000 AIC @ 480 Vac	600 Vac, 125/250 Vdc	70	AEEB22670C	AEEB23670C	3
			90	AEEB22690C	AEEB23690C	
			100	AEEB22610C	AEEB23610C	
			125	AEEB22612C	AEEB23612C	
			175	AEEB22617C	AEEB23617C	
			200	AEEB22620C	AEEB23620C	
			225	AEEB22622C	AEEB23622C	
			250	AEFB22625C	AEFB23625C	
400	KD 25,000 AIC @ 600 Vac KD 35,000 AIC @ 480 Vac	600 Vac, 125/250 Vdc	125	AEFB42612C	AEFB43612C	4
			175	AEFB42617C	AEFB43617C	
			200	AEFB42620C	AEFB43620C	
			225	AEFB42622C	AEFB43622C	
			250	AEFB42625C	AEFB43625C	
			300	AEFB42630C	AEFB43630C	
			350	AEFB42635C	AEFB43635C	
			400	AEFB42640C	AEFB43640C	
600	LD 25,000 AIC @ 600 Vac LD 35,000 AIC @ 480 Vac	600 Vac, 125/250 Vdc	450	AEDB62645C	AEDB63645C	4
			500	AEDB62650C	AEDB63650C	
			600	AEDB62660C	AEDB63660C	
800	MDL 25,000 AIC @ 600 Vac MDL 50,000 AIC @ 480 Vac	600 Vac, 125/250 Vdc	300	AELB82630C	AELB83630C	(2) 4
			350	AELB82635C	AELB83635C	
			400	AELB82640C	AELB83640C	
			450	AELB82645C	AELB83645C	
			500	AELB82650C	AELB83650C	
			600	AELB82660C	AELB83660C	
			700	AELB82670C	AELB83670C	
			800	AELB82680C	AELB83680C	
1200	MDL 25,000 AIC @ 600 Vac MDL 50,000 AIC @ 480 Vac	600 Vac, 125/250 Vdc	600	AEGB122660C ①	AEGB123660C ①	(2) 4
			800	AEGB122680C ①	AEGB123680C ①	
			1000	AEGB122610C ①	AEGB123610C ①	
			1200	AEGB122612C ①	AEGB123612C ①	

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② For higher interrupting capacities, contact your local representative.

③ Cutler-Hammer breaker provided as standard. For GE breaker change **C** to **G**; For Square D breaker change **C** to **S**; For Siemens breaker change **C** to **I**.

▲ To complete the catalog number please add the appropriate suffix for other options/features. These suffixes can be found under Options.

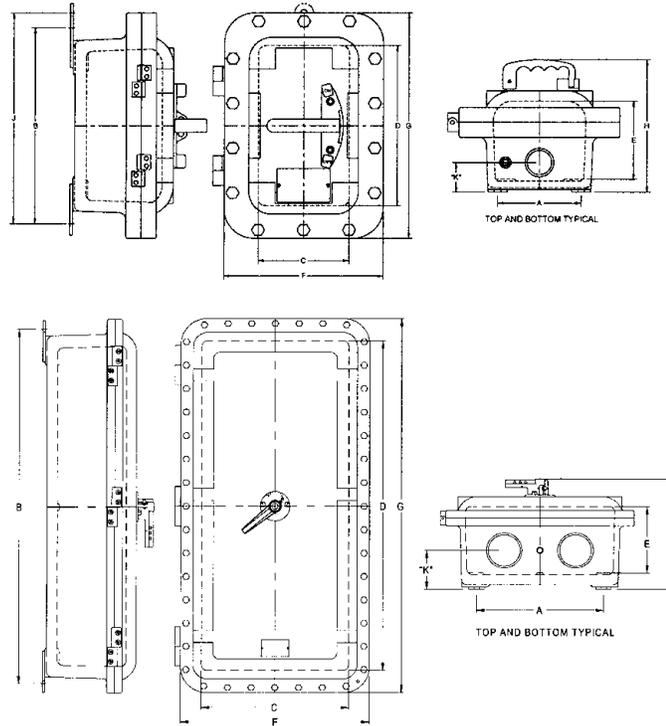
AE Bolted Circuit Breaker Enclosure

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Dimensions in Millimeters (Inches)



Enclosure Only

Enclosure Size	Catalog Number	Dia. Number	Dimensions in Millimeters (Inches)										Number of Outlets	Dimension mm (in) K	Approximate Weight kgs (lbs)
			Mounting			Inside			Outside						
			A	B	J	C	D	E	F	G	H				
A	AEAB	1	139.7 (5.50)	333.5 (13.13)	358.9 (14.13)	155.7 (6.13)	273.0 (10.75)	133.3 (5.25)	270.0 (10.63)	387.3 (15.25)	224.5 (8.84)	2	50.8 (2.00)	17.24 (38)	
B	AEBB	1	152.4 (6.00)	457.2 (18.00)	782.6 (19.00)	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	58.6 (2.31)	25.85 (57)	
C	AECB	1	260.3 (10.25)	574.8 (22.63)	Not Available	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	88.9 (3.50)	47.17 (104)	
E	AEEB	1	215.9 (8.50)	689.1 (27.13)	Not Available	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	101.6 (4.00)	65.77 (145)	
F	AEFB-250	1	241.3 (9.50)	692.1 (27.25)	Not Available	285.7 (11.25)	758.9 (29.88)	204.7 (8.06)	416.0 (16.38)	889.0 (35.00)	313.4 (12.34)	2	106.4 (4.19)	77.11 (170)	
F	AEFB-400	2	241.3 (9.50)	692.1 (27.25)	Not Available	285.7 (11.25)	758.9 (29.88)	204.7 (8.06)	416.0 (16.38)	889.0 (35.00)	320.8 (12.63)	2	106.4 (4.19)	77.11 (170)	
D	AEDB	2	409.7 (16.13)	1035.0 (40.75)	Not Available	457.2 (18.00)	1079.5 (42.50)	193.8 (7.63)	346.2 (13.63)	962.1 (37.88)	325.3 (12.81)	2	109.4 (4.31)	103.42 (228)	
L	AELB	3	406.4 (16.00)	1152.6 (45.38)	Not Available	473.2 (18.63)	1073.1 (42.25)	215.9 (8.50)	606.5 (23.88)	1216.1 (47.88)	361.9 (14.25)	4	127.0 (5.00)	190.06 (419)	
G ^①	AEGB	4	543.1 (21.38)	1270.0 (50.00)	Not Available	508.0 (20.00)	1524.0 (60.00)	254.0 (10.00)	635.0 (25.00)	1651 (65.00)	534.0 (21.38)	6	111.2 (4.38)	257.19 (567)	

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