

AE Bolted Molded Case Switches and Enclosures

Explosionproof, Dust-Ignitionproof, Watertight

NEC:

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 molded case switch enclosures are used where hazardous materials are handled or stored.
- These units are used to disconnect circuits, control of lighting and power circuits.

Features

- Precision machined flamepath 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.
- Switch 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.
- Switches mounted on a galvanized steel removable pan.
- Molded case switches are designed to accept +40 °C (+104 °F) standard circuit breakers.
- O-ring gasket insures watertight integrity.

Standard Materials

- Bodies and covers: copperfree (4/10 of 1% max.) aluminum
- Cover bolts, hinges switch and operator shafts: 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, 50.8 mm x 101.6 mm (2" x 4"), 3.2 mm (0.125") 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 1200 Amp or 4-pole versions, contact your local representative.

NEC Certifications and Compliances

- UL Standard: UL 1203
- UL Listed: E84577



Appleton®

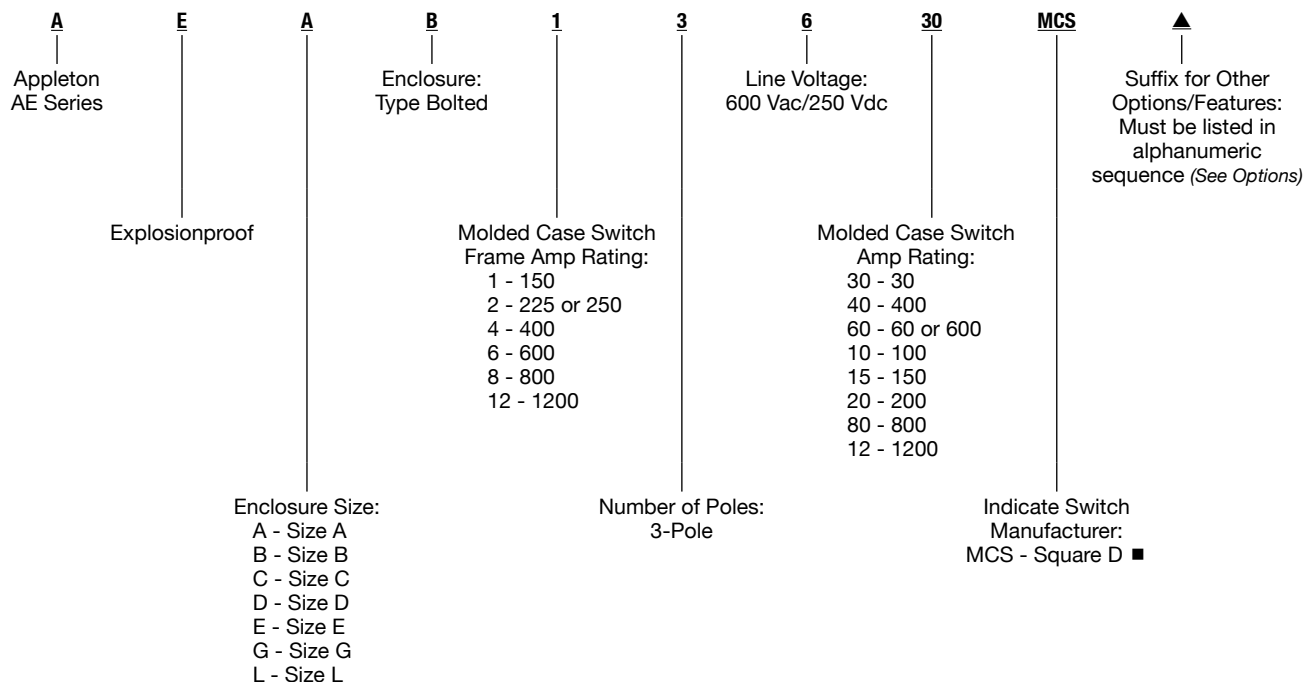
DISTRIBUTION EQUIPMENT: NEC/CEC HAZARDOUS LOCATION SWITCHES

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Catalog Numbering Guide



Molded Case Switch Frame Size	Molded Case Switch Type/Interrupting Capacity ①	Volts	Amp Rating	3 Pole Catalog Number	Standard Conduit Outlets (Inches)
150	FHL 18,000 AIC @ 600 Vac (For higher interrupting capacities, contact your local representative)	600 Vac, 120/250 Vdc	30	AEAB13630MCS	1-1/2
			60	AEAB13660MCS	1-1/2
			100	AEBB13610MCS	2
			150	AEEB13615MCS	2-1/2
225	FHL 18,000 AIC @ 600 Vac (For higher interrupting capacities, contact your local representative)	600 Vac, 120/250 Vdc	225	AEEB23622MCS	3
250	KAL 22,000 AIC @ 600 Vac (For higher interrupting capacities, contact your local representative)	600 Vac, 120/250 Vdc	250	AEEB23625MCS	4
400	LAL 22,000 AIC @ 600 Vac (For higher interrupting capacities, contact your local representative)	600 Vac, 120/250 Vdc	400	AEFB43640MCS	4
600	LCL 35,000 AIC @ 600 Vac	600 Vac, 120/250 Vdc	600	AEDB63660MCS	4
800	MHL 25,000 AIC @ 600 Vac (For higher interrupting capacities, contact your local representative)	600 Vac, 120/250 Vdc	800	AELB83680MCS	(2) 4
1200 ①	ND 25,000 AIC @ 600 Vac	600 Vac, 120/250 Vdc	800	AEGB123680MCS	(3) 4
			1200	AEGB123612MCS	(3) 4

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

■ Square D is a registered trademark of Schneider Electric.

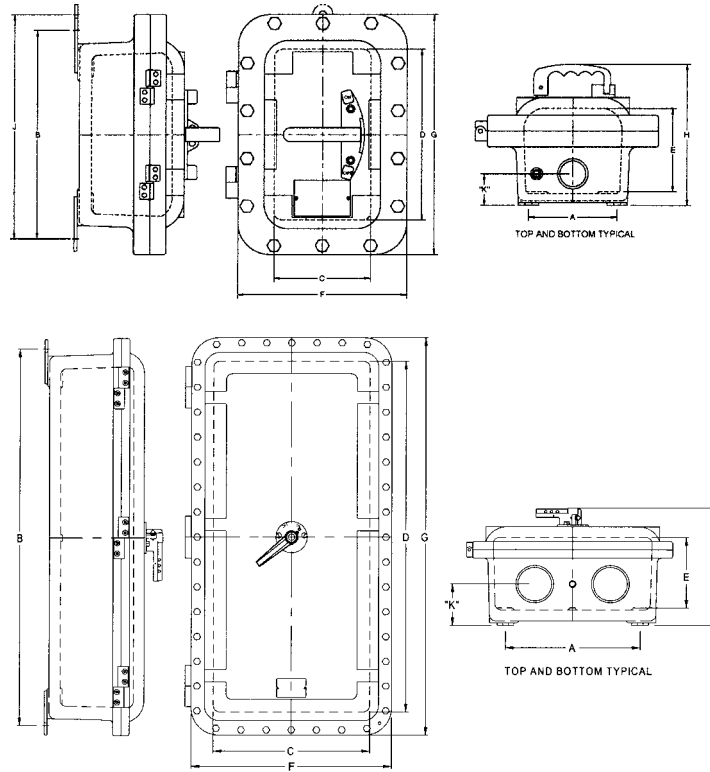
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Dimensions in Millimeters (Inches)



Enclosure Only

Enclosure Size	Catalog Number	Dia. Number	Dimensions in Millimeters (Inches)										Number of Outlets	K Dimension	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)	162.0 (6.38)	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	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)	