

# AEB Series Bolted Motor Starters and Contactors

## Explosionproof, Dust-Ignitionproof, Watertight

Full Voltage. Combination and Non-Combination.

### NEC/CEC:

Class I, Division 1 and 2, Groups B, C, D  
Class I, Zone 1 and 2, Groups IIB + H<sub>2</sub>  
Class II, Division 1 and 2, Groups E, F, G  
Class III

### NEC/CEC:

NEMA 4, 4X, 7BCD, 9EFG  
CSA Type 4, 4X

### Application

- Combination and non-combination motor starters are used in areas where hazardous materials are handled or stored.
- These units provide disconnecting means, undervoltage protection, circuit protection, and motor running protection.

### Features

- Copperfree cast aluminum.
- Precision machined flame path between box and cover.
- Bolt on slotted mounting feet.
- Stainless steel, captive Quad-Lead® cover bolts (disengage in 1-1/2 turns).
- External stainless steel breaker operating handle.
- Ground lug package and installation instructions for termination of ground wire enclosed.
- Four point control terminal block, NEMA 1B with wire markers.
- Breaker operators can be locked in the ON or OFF position (combination starters only).
- Four plugged 3/4" NPSM outlets drilled and tapped for control devices.
- Standard outlets top and bottom.
- Plugged 1/2" outlets top and bottom for optional breather/drain.
- Components are mounted on a galvanized steel removable pan.
- Enclosures are designed to accept Cutler-Hammer Ⓞ, or Square D ■ motor starters/circuit breakers. For other manufacturers, contact your local representative.
- O-ring gasket insures watertight integrity.

### Standard Materials

- Bodies and covers: copperfree (4/10 of 1%) aluminum
- Block hinges, cover bolts, handle, breaker and operator shafts: stainless steel
- O-ring: neoprene

### Standard Finish

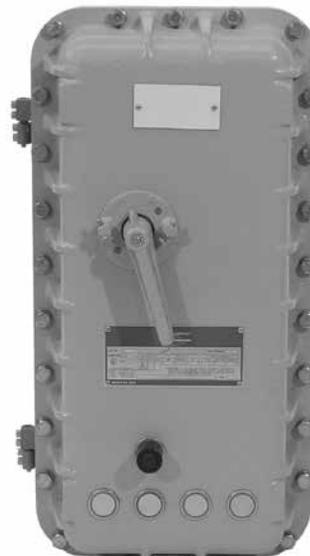
- Corrosion resistant gray powder coat epoxy inside and out

### Options

- See modifications page.

### NEC Certifications and Compliances

- ANSI/UL Standards: UL 508, UL 50, UL 1203
- CSA Standards: C22.2 No. 0-10, C22.2 No. 14-10, C22.2 No. 25-1996, C22.2 No. 30-M1986 and C22.2 No. 94-M91
- cCSAus Certified: 2561837



CONTROLS: NEC/CEC EXPLOSIONPROOF MOTOR STARTERS

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Cutler-Hammer is a registered trademark of Eaton Corporation.

■ Square D is a registered trademark of Schneider Electric.

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### Modifications

Description	Suffix Factory Installed	Catalog Number Field Installed
<b>Operators</b> ①		
Start/Stop dual push button	<b>S3X</b>	<b>AEPDGRE</b>
Stop push button	<b>S2X</b>	<b>AEPRC</b>
Start push button	<b>S1X</b>	<b>AEPGA</b>
Stop, lighted PB, red 120 Vac	<b>LP5X</b>	<b>AEP TRE</b>
Start, lighted PB, green 120 Vac	<b>LP4X</b>	<b>AEPTGE</b>
3 position selector switch specify legend	<b>A3X</b>	<b>AESS31MN</b>
2 position selector switch specify legend	<b>A2X</b>	<b>AESS22ML</b>
Red pilot light, 120 Vac	<b>L5</b>	<b>AEPL1R</b>
Green pilot light, 120 Vac	<b>L4</b>	<b>AEPL1G</b>
Red pilot light, 240 Vac	<b>L52</b>	<b>AEPL2R</b>
Green pilot light, 240 Vac	<b>L42</b>	<b>AEPL2G</b>
Red pilot light, 480 Vac	<b>L54</b>	<b>AEPL4R</b>
Green pilot light, 480 Vac	<b>L44</b>	<b>AEPL4G</b>
<b>NEMA 4X Breather/Drain Fittings</b>		
Drain fitting	<b>DN</b>	<b>DRNB4X</b>
Breather fitting (Drilled and tapped installation included.)	<b>BR</b>	<b>BRTB4X</b>
<b>Control Power Options</b> ②③		
Fused CPT, 50 Va	<b>T1</b>	<b>AFCPT050</b>
Fused CPT, 100 Va	<b>T2</b>	<b>AFCPT100</b>
Fused CPT, 200 Va	<b>T3</b>	<b>AFCPT200</b>
Fused CPT, 250 Va	<b>T4</b>	<b>AFCPT250</b>
Fused CPT, 50 Va w/interposing relay	<b>T5</b>	<b>AFCPT050R</b>
Fused CPT, 150 Va	<b>T6</b>	<b>AFCPT150</b>
Fused CPT, 300 Va	<b>T7</b>	<b>AFCPT300</b>
Fused CPT, 500 Va	<b>T8</b>	<b>AFCPT500</b>
Fused CPT, 750 Va	<b>T9</b>	<b>AFCPT750</b>
Separate control fused circuit	<b>S-120V</b>	n/a
Specify starter coil voltage	<b>S-240V</b>	n/a
	<b>S-480V</b>	n/a

Description	Suffix Factory Installed	Catalog Number Field Installed
<b>Nameplates</b>		
Engraved nameplate — black letters on white surface, 50.8 x 101.6 mm (2" x 4"), 3.18 mm (0.125") letters, 3 lines max. specify legend	<b>NP</b>	n/a
<b>Space Heater</b>		
40 Watt enclosure space heaters	120 Vac 240 Vac 480 Vac	<b>O-120V</b> <b>O-240V</b> <b>O-480V</b>
		<b>AFA4327X11</b> <b>AFA4327X12</b> <b>AFA4327X13</b>
<b>Control Terminal Blocks</b> (Above 12 points contact your local representative)		
20 Amp, 600 Vac	8 point	<b>8K</b>
NEMA 1B w/wire markers	12 point	<b>12K</b>
		n/a n/a
<b>Cutler-Hammer</b> ⑦ <b>Starter Auxiliary Contacts</b>		
Size 0-4 ④	1NO/1NC 2NO/2NC	<b>X11C</b> <b>X22C</b>
		<b>AJ-11</b> <b>AJ-11 (2 ea.)</b>
Size 5 ⑤	1NO/1NC 2NO/2NC	<b>X511C</b> <b>X522C</b>
		<b>A3463D94G18</b> <b>A3463D94G18 (2 ea.)</b>
<b>Square D</b> ⑧ <b>Starter Auxiliary Contacts</b>		
Size 0-5 ⑥	1NO/1NC 2NO/2NC	<b>X11S</b> <b>X22S</b>
		<b>A999SX8</b> <b>A999SX8 (2 ea.)</b>
<b>Number of Poles on Lighting Contactors</b>		
30 Amp, 120 Vac	3 Poles	<b>3</b>
30 Amp, 120 Vac	6 Poles	<b>6</b>
30 Amp, 120 Vac	9 Poles	<b>9</b>
30 Amp, 120 Vac	12 Poles	<b>12</b>

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NOTE: **CPT** includes primary and secondary fuses.

① Add —L to part no. for Size 5 starters.

② Size 1 and 2 150 Vac Max. Size 3 and 4 300 Vac Max.

③ Contact your local representative for other voltages.

④ 8 Aux. Contacts Max. includes one seal-in and seven added.

⑤ 4 Aux. Contacts Max. includes one seal-in and three added.

⑥ Size 0-1 includes one seal-in and four added. Size 2-5 includes one seal-in and three added.

⑦ Cutler-Hammer is a registered trademark of Eaton Corporation.

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