

# 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

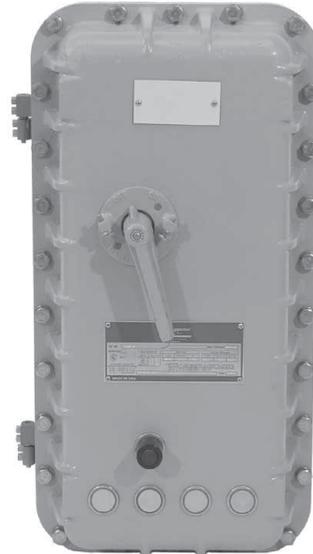
- Corrosion resistant gray powder coat epoxy inside and out

### 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

Appleton®

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

■ Square D is a registered trademark of Schneider Electric.

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### Catalog Numbering Guide

Example: The part number below depicts an Appleton, Class I, Division I, Groups B, C and D, NEMA Size 1, Bolted type, Combination Full Voltage Nonreversing Motor Starter operating at 480 Vac, Cutler-Hammer + starter w/120 Vac control voltage, and a Cutler-Hammer 7A MCP. If a breaker is not required, omit last two characters.

CONTROLS: NEC/CEC EXPLOSIONPROOF MOTOR STARTERS

<p><b>AE</b></p> <p>NEC/CEC Certified AE Series</p>	<p><b>1</b></p> <p>NEMA Size: 0 1 2 3 4 5</p>	<p><b>B</b></p> <p>Starter Function:                      A - FVNR (ATL)                      B - Combination FVNR                      M - Lighting Contactor (3- thru 12-pole) ①                      N - Combination Lighting Contactor (3- thru 12-pole) ①</p> <p>Optional Starter Function ②:                      C - FVR                      D - Combination FVR                      E - 2S1W                      F - Comb. 2S1W                      G - 2S2W                      H - Combination 2S2W                      J - Contactor (3 pole)                      K - Combination Contactor (3-pole)</p>	<p><b>4</b></p> <p>Operating Voltage:                      1 - 120 Vac                      2 - 240 Vac                      3 - 380 Vac                      4 - 480 Vac                      6 - 600 Vac                      9 - 208 Vac</p>	<p><b>W</b></p> <p>Starter Manufacturer: ③                      W - Standard; Eaton/Cutler-Hammer (A200)                      C - Freedom (AN16) Bi Metal; Eaton/Cutler-Hammer and                      A - Freedom (AN19) Electronic; Eaton/Cutler-Hammer                      S - Square D</p>	<p><b>1</b></p> <p>Control Voltage (120 V coil standard):                      1 - 120 Vac                      2 - 240 Vac                      3 - 380 Vac                      4 - 480 Vac                      6 - 600 Vac                      8 - 480 V Coil/120 V Control                      9 - 208 Vac                      0 - 277 Vac</p>	<p><b>C</b></p> <p>Breaker Manufacturer: ③                      C - Cutler-Hammer                      S - Square D</p>	<p><b>2</b></p> <p>MCP or Breaker Trip:                      MCP                      1 - 3 Amp                      2 - 7 Amp                      3 - 15 Amp                      4 - 30 Amp                      5 - 50 Amp                      6 - 70 Amp                      7 - 100 Amp                      8 - 150 Amp                      9 - 250 Amp                      0 - 400 Amp</p>	<p><b>▲</b></p> <p>Suffix for Other Options/Features:                      See Modifications</p> <p>Breaker Trip (Thermal Mag):                      A - 15 Amp                      B - 20 Amp                      C - 25 Amp                      D - 30 Amp                      E - 35 Amp                      F - 40 Amp                      G - 50 Amp                      H - 60 Amp                      J - 70 Amp                      K - 80 Amp                      M - 90 Amp                      N - 100 Amp                      P - 125 Amp                      Q - 150 Amp                      R - 175 Amp                      S - 200 Amp                      T - 225 Amp                      U - 250 Amp                      V - 300 Amp                      W - 350 Amp                      X - 400 Amp</p>
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① Standard starter is manufactured by Square D; electrically operated, electrically held. Optional starter manufacture is ASCO; electrically operated, mechanically held. Contact your local sales representative for details.

② Contact your local sales representative for details.

③ Contact your local sales representative for additional UL Classified starters (Allen Bradley 509 and Vacuum, Sprecher and Schuh, Siemens, GE, and Cutler Hammer ITT Softstart and V200 Vacuum).