

# AE Series Disconnect Switches

## Explosionproof, Dust-Ignitionproof

### 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 disconnect 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 hinges are standard.
- 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.
- Disconnects and operator shafts are stainless steel.
- Disconnects 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.
- Disconnects mounted on a galvanized steel removable pan.
- O-ring gasket ensures watertight integrity.

### Standard Materials

- Bodies and covers: copperfree (4/10 of 1% max.) aluminum
- Cover bolts and hinges: stainless steel
- O-ring: neoprene

### Standard Finishes

- Bodies and covers: gray epoxy powder coat inside and outside standard to provide NEMA 4X rating

### Options

Must be listed in alphanumeric sequence at the end of the catalog number.

- Auxiliary switch (1NO, 1NC), add suffix —**AS1**.
- Auxiliary switch (2NO, 2NC), 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**.

### NEC Certifications and Compliances

- UL Standard: UL 1203
- UL Classified: E84577



APPLETON™

DISTRIBUTION EQUIPMENT: NEC/CEC HAZARDOUS LOCATION SWITCHES

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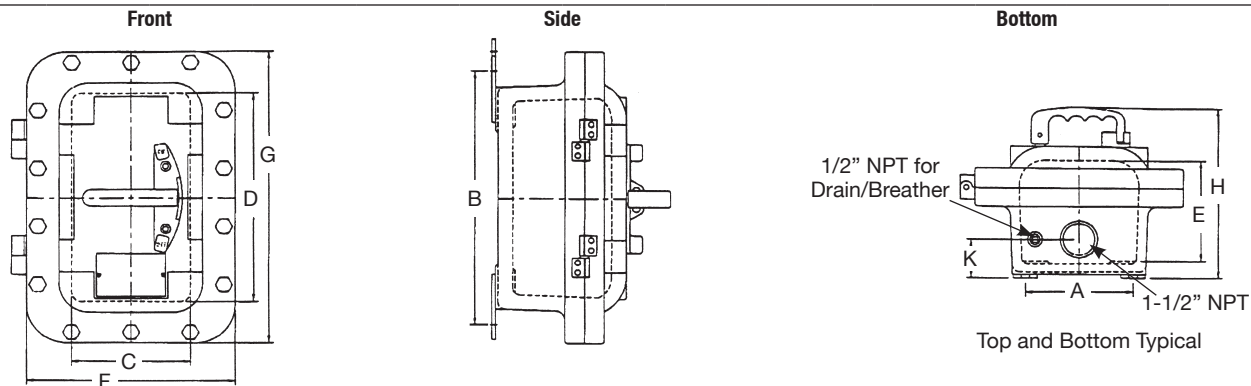
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## Disconnect Switches

| Type                                                                       | Number of Poles | Volts                   | Amp Rating | Standard Conduit Outlet (Inches) | Catalog Number      |
|----------------------------------------------------------------------------|-----------------|-------------------------|------------|----------------------------------|---------------------|
| Supplied with Cutler-Hammer + disconnect switch. Type J fuses recommended. |                 |                         |            |                                  |                     |
| Fused<br>(fuses not included)                                              | 3               | 600 Vac,<br>125/250 Vdc | 30         | 1.50                             | <b>AEAB3036FDS</b>  |
|                                                                            |                 |                         | 60         | 2.00                             | <b>AEBB6036FDS</b>  |
|                                                                            |                 |                         | 100        | 2.50                             | <b>AECB10036FDS</b> |
| Non-Fused                                                                  | 3               | 600 Vac,<br>125/250 Vdc | 30         | 1.50                             | <b>AEAB3036DS</b>   |
|                                                                            |                 |                         | 60         | 1.50                             | <b>AEAB6036DS</b>   |
|                                                                            |                 |                         | 100        | 2.00                             | <b>AEBB10036DS</b>  |



## Dimensions in Millimeters (Inches)



| Enclosure Size | Catalog Number | Dimensions in Millimeters (Inches) |                  |                  |                  |                 |                  |                  |                 | Number of Outlets | K Dimension    | Approximate Weight kgs (lbs) |
|----------------|----------------|------------------------------------|------------------|------------------|------------------|-----------------|------------------|------------------|-----------------|-------------------|----------------|------------------------------|
|                |                | Mounting A                         | B                | C                | Inside D         | E               | F                | Outside G        | H               |                   |                |                              |
| A              | AEAB           | 139.7<br>(5.50)                    | 333.5<br>(13.13) | 155.7<br>(6.13)  | 273.1<br>(10.75) | 133.4<br>(5.25) | 270<br>(10.63)   | 387.4<br>(15.25) | 224.5<br>(8.84) | 2                 | 50.8<br>(2.00) | 17.24<br>(38)                |
| B              | AEBB           | 152.4<br>(6.00)                    | 457.2<br>(18.00) | 165.1<br>(6.50)  | 406.4<br>(16.00) | 139.7<br>(5.50) | 279.4<br>(11.00) | 520.7<br>(20.50) | 227.8<br>(8.97) | 2                 | 58.7<br>(2.31) | 25.85<br>(57)                |
| C              | AECB           | 260.4<br>(10.25)                   | 574.8<br>(22.63) | 289.1<br>(11.38) | 508<br>(20.00)   | 162.1<br>(6.38) | 416.1<br>(16.38) | 638.3<br>(25.13) | 243.6<br>(9.59) | 2                 | 88.9<br>(3.50) | 47.17<br>(104)               |

## Electrical Ratings Maximum Motor HP

| Maximum Amps | Maximum Horsepower Rating |         |         |         |         |
|--------------|---------------------------|---------|---------|---------|---------|
|              | 120 Vac                   | 240 Vac | 480 Vac | 600 Vac | 250 Vdc |
| 30           | 5                         | 10      | 20      | 25      | 7-1/2   |
| 60           | 10                        | 20      | 40      | 60      | 15      |
| 100          | 15                        | 30      | 75      | 75      | 25      |

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