

EBR Interlocked Circuit Breaker Receptacle

Explosionproof, Dust-Ignitionproof, Weather Resistant

30, 60, 100 and 150 Amp, 600 Vac

CEC:

Class I, Groups B, C, D

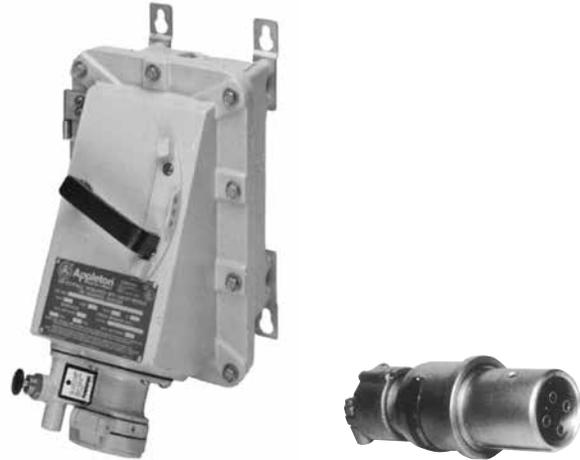
Class II, Group G and Coal Dust

Class III

CSA Type 3*, 3R*, 4*, 4X*, 7CD, 9G, 12

Applications

- The EBR is designed to connect portable electrical equipment for use in hazardous areas such as:
 - Compressors
 - Conveyors
 - Motor generators
 - Air conditioners
 - Heaters
- Its construction and features provide short circuit protection and is ideally suited for use in:
 - Damp, wet locations
 - Corrosive areas
 - Indoor or outdoor
 - Hazardous or non-hazardous locations
- Class I: classified locations such as:
 - Refineries
 - Petrochemical plants
 - Petroleum refineries
 - Paint and chemical plants
 - Any location where ignitable vapors or gases are present
- Class II: classified locations such as:
 - Process industries where there are dust hazards from handling such products as flour, grain and starch
 - Any location where ignitable amounts of dust are present or amounts which would adversely affect performance



- 1 N/O and 1 N/C Auxiliary Contacts – Suffix **-XLK**.
- 2 N/O and 2 N/C Auxiliary Contacts – Suffix **-2XLK**.
- CSA 4X ▼ Versions available. Add suffix **-4X**.

Features

- Plug is mechanically locked in receptacle when circuit breaker is "ON". Design provides interlocked connect and disconnect operation as well as short circuit and thermal time delay overload protection.
- Plug and receptacle contacts cannot be made or broken under load. Breaker operating handle can be padlocked in either "ON" or "OFF" position and is trip free.
- Body is easily installed with 4 mounting brackets provided, each having keyhole slots. Body has three 1 1/2" taper tapped conduit openings – (1) top and (2) bottom. Also provided are 3/4" threaded openings (3/4" -1/2" reducer furnished) top and bottom for installation of optional drain and breathers.
- Appleton's EBR explosion-proof receptacle with interlocked circuit breakers utilize either ACP or CPH series plugs.
- The cover is secured with captive quick-bolts for easy installation or removal.
- Receptacle ratings available are 30, 60, and 150 Amp.
- Circuit Breakers are thermal-magnetic type – 150 Amp frame size, 20 to 100 Amp trip.

Standard Materials and Finishes

- Receptacle and mounting box: copperfree (4/10 of 1% max.) aluminum with gray epoxy coated inside and out
- Quick-bolts and hinge pins: stainless steel

CEC Certifications and Compliances

- CSA Standard: C22.2 No. 25, C22.2 No. 30, C22.2 No. 159, C22.2 No.182.1
- CSA Certified: 038644

Options

- Special Polarization: Prevents plug insertion in a receptacle or connector wired for a different voltage. In installations where there are different line voltages, the special polarization option is desirable. This allows only plugs and receptacles wired for the same line voltage to be mated together. The receptacle or connector interior is positioned 22-1/2°, relative to the polarization rivet, to the right (as specified) of standard, and plug is polarized to correspond. This option can be added to receptacles using the Powertite™ Plug. Suffix **-PR** to receptacle or plug.

• Flip cover suitable for NEMA 3, 3R only.

▼ NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Install screw cover for 4, 4X. Both covers are included with product. The EBR will also accept Crouse-Hinds APJ series plugs. Crouse-Hinds and APJ are registered trademarks of Cooper Crouse-Hinds.

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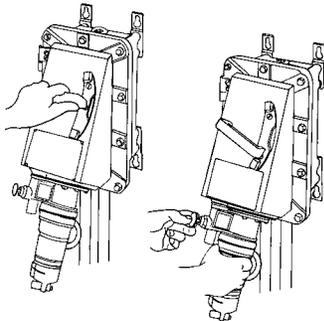
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CSA Type 3*, 3R*, 4*, 4X*, 7CD, 9G, 12



Solderless lugs are provided for line connections, and receptacle is prewired to the load side of breaker. Cover-mounted components leave entire enclosure space free for pulling of line conductors and wiring.



Plug is mechanically locked in receptacle when circuit breaker is ON. Design provides interlocked connect and disconnect operation as well as short circuit and thermal time delay overload protection.

Breaker operating handle can be padlocked in either ON or OFF position and is trip-free.

Enclosure has additional 3/4" threaded openings top and bottom for installation of optional drain and breather; reducers furnished.

- Flip cover suitable for NEMA 3, 3R only.
- ▼ NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Install screw cover for 4, 4X. Both covers are included with product.
- ◀ Cutler-Hammer is a registered trademark of Eaton Corporation.

Horsepower Tables

These Cutler-Hammer * circuit breaker recommendations are for induction motors running with usual speed and torque characteristics. Ambient temperature, and frequency of starting could require different protective characteristics.

| | HP | 120 Vac | 240 Vac | 480 Vac | 600 Vac |
|---|-----------------------------------|---------|---------|---------|---------|
| 2W, 3P, 1-Phase, 30 Amp 2-Pole | 1 | 40EHD | 20EHD | 15EHD | 15FDB |
| | 1-1/2 | 40EHD | 30EHD | 15EHD | 15FDB |
| | 2 | 50EHD | 30EHD | 20EHD | 15FDB |
| | 3 | — | 40EHD | 30EHD | 20FDB |
| | 5 | — | — | 40EHD | 30FDB |
| | 7-1/2 | — | — | 40EHD | 40FDB |
| 2W, 3P, 1-Phase, 60 Amp 2-Pole | 3 | 50EHD | — | — | — |
| | 5 | 100EHD | 50EHD | — | — |
| | 7-1/2 | — | 70EHD | — | — |
| | 10 | — | — | 50EHD | 40FDB |
| 3W, 4P, 3-Phase, 30 Amp 3-Pole | 1 | — | 15EHD | 15EHD | 15FDB |
| | 1-1/2 | — | 15EHD | 15EHD | 15FDB |
| | 2 | — | 20EHD | 15EHD | 15FDB |
| | 3 | — | 30EHD | 15EHD | 15FDB |
| | 5 | — | 40EHD | 20EHD | 20FDB |
| | 7-1/2 | — | 50EHD | 30EHD | 30FDB |
| | 10 | — | — | 40EHD | 30FDB |
| | 15 | — | — | 40EHD | 40FDB |
| | 20 | — | — | — | 50FDB |
| | 3W, 4P, 3-Phase, 60 Amp 3-Pole | 10 | — | 50EHD | — |
| 15 | | — | 70EHD | — | — |
| 20 | | — | — | 50EHD | — |
| 25 | | — | — | 50EHD | 50FDB |
| 30 | | — | — | 70EHD | 50FDB |
| 40 | | — | — | — | 70FDB |
| 20 | | — | 100EHD | — | — |
| 25 | | — | 100EHD | — | — |
| 3W, 4P, 3-Phase, 100A and 150 Amp 3-Pole | 30 | — | 150FD | — | — |
| | 40 | — | — | 100EHD | — |
| | 50 | — | — | 100EHD | 100FDB |
| | 60 | — | — | 125FD | 125FDB |
| | 75 | — | — | — | 125FDB |

Circuit Breaker Data — Cutler-Hammer *

| Frame | Continuous | | Interrupting Ratings (RMS SYM Amp) | | |
|-------|------------|-----------|------------------------------------|---------|---------|
| | Amp | Max Volts | 240 Vac | 480 Vac | 600 Vac |
| EHD | 20-100 | 480 | 18,000 | 14,000 | — |
| FDB | 20-125 | 600 | 18,000 | 14,000 | 14,000 |
| FD | 20-150 | 600 | 65,000 | 25,000 | 18,000 |
| HFD | 20-100 | 600 | 100,000 | 65,000 | 25,000 |

Horsepower Rating Table — Disconnect Switch

| Max. Amp | Max. 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 |
| 150 | — | 50 | 100 | 150 | — |

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| Receptacle Description | Circuit Breaker | | With 480 Vac | | With 600 Vac | |
|--|-----------------|------|----------------|----------------|------------------|----------------|
| | Amp | Pole | EHD Breaker | FDB Breaker | FD Breaker | HFD Breaker |
| 30 Amp 2W 3P | 20 | 2 | EBR3023EHD20W | EBR3023FDB20W | EBR3023FD20W | EBR3023HFD20W |
| | 30 | | EBR3023EHD30W | EBR3023FDB30W | EBR3023FD30W | EBR3023HFD30W |
| | 40 | | EBR3023EHD40W | EBR3023FDB40W | EBR3023FD40W | EBR3023HFD40W |
| | 50 | | EBR3023EHD50W | EBR3023FDB50W | EBR3023FD50W | EBR3023HFD50W |
| 30 Amp 3W 4P | 20 | 3 | EBR3034EHD20W | EBR3034FDB20W | EBR3034FD20W | EBR3034HFD20W |
| | 30 | | EBR3034EHD30W | EBR3034FDB30W | EBR3034FD30W | EBR3034HFD30W |
| | 40 | | EBR3034EHD40W | EBR3034FDB40W | EBR3034FD40W | EBR3034HFD40W |
| | 50 | | EBR3034EHD50W | EBR3034FDB50W | EBR3034FD50W | EBR3034HFD50W |
| 60 Amp 2W 3P One Threaded (1-1/2") Conduit Opening in Top | 50 | 2 | EBR6023EHD50W | EBR6023FDB50W | EBR6023FD50W | EBR6023HFD50W |
| | 60 | | EBR6023EHD60W | EBR6023FDB60W | EBR6023FD60W | EBR6023HFD60W |
| | 70 | | EBR6023EHD70W | EBR6023FDB70W | EBR6023FD70W | EBR6023HFD70W |
| | 90 | | EBR6023EHD90W | EBR6023FDB90W | EBR6023FD90W | EBR6023HFD90W |
| | 100 | | EBR6023EHD100W | EBR6023FDB100W | EBR6023FD100W | EBR6023HFD100W |
| 60 Amp 3W 4P | 50 | 3 | EBR6034EHD50W | EBR6034FDB50W | EBR6034FD50W | EBR6034HFD50W |
| | 60 | | EBR6034EHD60W | EBR6034FDB60W | EBR6034FD60W | EBR6034HFD60W |
| | 70 | | EBR6034EHD70W | EBR6034FDB70W | EBR6034FD70W | EBR6034HFD70W |
| | 90 | | EBR6034EHD90W | EBR6034FDB90W | EBR6034FD90W | EBR6034HFD90W |
| | 100 | | EBR6034EHD100W | EBR6034FDB100W | EBR6034FD100W | EBR6034HFD100W |
| 100 Amp 2W 3P | 50 | 2 | EBR1023EHD50W | EBR1023FDB50W | EBR1023FD50W | EBR1023HFD50W |
| | 70 | | EBR1023EHD70W | EBR1023FDB70W | EBR1023FD70W | EBR1023HFD70W |
| | 90 | | EBR1023EHD90W | EBR1023FDB90W | EBR1023FD90W | EBR1023HFD90W |
| | 100 | | EBR1023EHD100W | EBR1023FDB100W | EBR1023FD100W | EBR1023HFD100W |
| 100 Amp 3W 4P | 50 | 3 | EBR1034EHD50W | EBR1034FDB50W | EBR1034FD50W | EBR1034HFD50W |
| | 70 | | EBR1034EHD70W | EBR1034FDB70W | EBR1034FD70W | EBR1034HFD70W |
| | 90 | | EBR1034EHD90W | EBR1034FDB90W | EBR1034FD90W | EBR1034HFD90W |
| | 100 | | EBR1034EHD100W | EBR1034FDB100W | EBR1034FD100W | EBR1034HFD100W |
| 150 Amp 3W, 4P | 100 | 3 | N/A | N/A | EBR15034FD100W ① | N/A |
| | 125 | | N/A | N/A | EBR15034FD125W ① | N/A |
| | 150 | | N/A | N/A | EBR15034FD150W ① | N/A |



Two Threaded
(1-1/2")
Conduit Openings
in Bottom

Appleton

PLUGS AND RECEPTACLES: NEC/CEC HAZARDOUS LOCATION

ACP Plugs for EBR Receptacles

| Cable Dia. (Inches) | 30 Amp | | 60 Amp | | 100 Amp | | 150 Amp |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| | 2W, 3P | 3W, 4P | 2W, 3P | 3W, 4P | 2W, 3P | 3W, 4P | 3W, 4P |
| .500 to 1.250 | ACP3023BC | ACP3034BC | — | — | — | — | — |
| .500 to 1.375 | — | — | ACP6023BC | ACP6034BC | — | — | — |
| .875 to 1.375 | — | — | — | — | ACP1023CD | ACP1034CD | — |
| 1.09 to 2.187 | — | — | — | — | — | — | ACP15034CD |
| | — | — | — | — | — | — | ACP15034DE |

• Flip cover suitable for NEMA 3, 3R only.
 ▼ NEMA 4 rating maintained with Appleton NEMA 4 plug installed. Install screw cover for 4, 4X. Both covers are included with product.
 ① Molded Case Switch available. Add suffix -K.