EHB-AS POWERLINK™ AS Remotely Operated Circuit Breakers for Use in 100 A and 225 A NEHB Panelboards with POWERLINK™ AS System Installed

CIRCUIT BREAKER FEATURES

- EHB-AS 1-pole Circuit Breaker
- EHB-AS 2-pole Circuit Breaker
- EHB-AS 3-pole Circuit Breaker

INSTALLATION

DANGER

HAZARD OF ELECTRIC SHOCK, BURN, OR EXPLOSION
- This equipment must be installed and serviced only by qualified electrical personnel.
- Turn off all power supplying this equipment before working on or inside equipment.
- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors and covers before turning on power to this equipment.

Failure to follow these instructions will result in death or serious injury.

EHB-AS POWERLINK™ AS Remotely Operated Circuit Breakers are for use on POWERLINK AS systems. They provide the same overcurrent protection as standard EHB circuit breakers, and have an integral operator which can turn the circuit breaker on or off.

The circuit breaker works with POWERLINK AS power interface modules and control buses to provide a remote power switching system in a panelboard.

The status window (A) shows circuit breaker status. White indicates that the circuit breaker is in the on (I) position. Green indicates that the circuit breaker is in the off (O) position. Red indicates that the circuit breaker is tripped. To turn a tripped circuit breaker on, move handle to off (O) position to reset it, then turn handle to on (I) position.

The switching mode button (B) is used to choose between automatic and manual modes. In automatic, the circuit breaker responds to signals from the power interface module. In manual mode, the circuit breaker will not remotely open and close and assumes the status indicated by its handle.

For manual mode, push the switching mode button in the direction indicated on circuit breaker. The button will pop up, indicating manual mode. For automatic mode, push the button down and in the opposite direction.

NOTE: When in automatic mode, a remotely operated circuit breaker with closed contact can still be manually opened by moving the handle to the off (O) position. A remotely operated circuit breaker cannot be closed remotely with the handle in the off (O) or tripped position.

Install circuit breaker in a 100 A or 225 A NEHB panelboard with POWERLINK AS control buses installed. For remote operation of circuit breaker, a POWERLINK AS power interface module and control module must also be installed in the panelboard. Circuit breakers are not suitable for use in 400 A, 600 A or column width panelboards.
No control wiring is required to install the circuit breaker. Remote control signals are sent by means of plug-on connections (A) which are connected upon installation of the circuit breaker into the panelboard.

1. Turn off power supplying this equipment before working on or inside equipment.
2. Disconnect power to panelboard and its components.
3. Remove panelboard cover and deadfront. Verify power is off with voltage meter before proceeding.
4. Before installing circuit breaker turn handle to off (O) position.

5. Strip branch circuit wire(s) 1/2–5/8 in. (13–16 mm).

6. For each circuit breaker pole:
   a. Loosen wire binding screw (B).
   b. Fully insert wire into pole connector (C).
   c. While holding wire in place, torque wire binding screw to 36 lb-in (4 N·m).

7. Install circuit breaker in panelboard:
   a. Remove control bus connector cover (D), if any.
   b. If installing circuit breaker into panel position where alignment fixture (E) is installed, first remove alignment fixture.

8. Screw flexible bolt-on connector(s) (F) into tapped hole in panelboard bus. Tighten screw(s) to 20–30 lb-in (2.3–3.4 N·m).

9. Push circuit breaker toward center of panelboard so that the flexible connector folds back upon itself and the mounting feet (G) are directly over mounting rail (H). Push mounting feet onto mounting rail.

   NOTE: This will also connect the circuit breaker to the control bus (I).

10. To allow circuit breaker face to protrude through the panelboard deadfront, remove the twist-out in the panelboard deadfront which corresponds with circuit breaker position. Replace the panelboard deadfront and cover.

**WARNING**

HAZARD OF FIRE FROM INADEQUATE WIRE SIZE

Do not exchange an existing circuit breaker with one of a higher ampere rating unless wiring is first checked by a qualified electrician.

Failure to follow these instructions can cause personal injury or death and/or property damage.
MANUAL CIRCUIT BREAKER OPERATION

To use circuit breaker prior to the installation of the POWERLINK AS power interface module:

1. Place circuit breaker in manual mode by pushing switching mode button (A) in direction indicated on circuit breaker until button pops up.
2. Turn circuit breaker handle to desired position. Status window (B) will display circuit breaker status.

REMoviNG CIRCUIT BREAKER

DANGER

HAZARDOF ELECTRIC SHOCK, BURN, OR EXPLOSION

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- Always use a properly rated voltage sensing device to confirm power is off.
- Replace all devices, doors and covers before turning on power to this equipment.

Failure to follow these instructions will result in death or serious injury.

1. Disconnect power to panelboard and its components.
2. Remove panelboard cover and deadfront. Before proceeding, verify power is off using a voltage meter.
3. Remove circuit breaker in reverse order of installation.