Drawout cassette open door interlock kit for Magnum® drawout circuit breaker

⚠️ WARNING

1. ONLY QUALIFIED ELECTRICAL PERSONNEL SHOULD BE PERMITTED TO WORK ON THE EQUIPMENT.
2. ALWAYS DE-ENERGIZE PRIMARY AND SECONDARY CIRCUITS IF A CIRCUIT BREAKER CANNOT BE REMOVED TO A SAFE WORK LOCATION.
3. DRAWOUT CIRCUIT BREAKERS SHOULD BE LEVERED (RACKED) OUT TO THE DISCONNECT POSITION.
4. ALL CIRCUIT BREAKERS SHOULD BE SWITCHED TO THE OFF POSITION AND MECHANISM SPRINGS DISCHARGED.

FAILURE TO FOLLOW THESE STEPS FOR ALL PROCEDURES DESCRIBED IN THIS INSTRUCTION LEAFLET COULD RESULT IN DEATH, BODILY INJURY, OR PROPERTY DAMAGE.

General information

This kit gives protection by preventing the circuit breaker from CLOSING while the cell door is open.

**WARNING:** This kit **MUST** be used in conjunction with the “drawout cassette door latch interlock kit” for safety (Kit 2A12850G02). The door latch interlock kit locks the cell door closed when the circuit breaker is CLOSED, and also covers the safety dependence of the open door interlock kit on the door latch interlock kit.

Kit parts identification

- (A) M6 x 12 screw (two)
- (B) Helical lock washer (two)
- (C) Tension spring (two)
- (D) Slider retainer (two)
- (E) M6 x 10 thread-forming screw (two)
- (F) Open door interlock assembly (one)

Figure 1. Contents of kit 2A12850G02

Required tools

- 10 mm socket and drive
- Phillips head screw driver (#2 recommended)
- Utility knife
- Pliers
- Round hand file

VERIFY SYSTEM POWER IS OFF AND BREAKER IS IN DISCONNECT BEFORE PROCEEDING WITH INSTALLATION.
**Installation of mechanism interlock assemblies**

**Removing existing interlock**

**Step 1**

Remove the front cover by unscrewing the hex-head captive bolts (four for three-pole, six for the four-pole) that join the cover to the breaker housing using a 10 mm ¼-inch drive socket. Then hold the charge handle down approximately 45 degrees to pull off the cover. Refer to **Figure 2**.

**Step 2**

Remove the interlock assembly from the side sheet of the cassette by removing M6 x 12 screws. Refer to **Figure 3**.

**Installing the new interlock**

**Step 3**

Attach the slider bracket assembly to the side sheet using two slider retainers (D), two washers (B), and two M6 x 10 thread-forming screws (A). Hook the free end of the return spring onto the tab marked “A” in the slider bracket, and attach the other end of the spring with one M6 x 12 thread-forming screw (E) into the hole marked “B.” Tighten the screw enough to secure it, but not enough that it protrudes inside the cassette. Refer to **Figure 4**.

**Re-installing the first interlock**

**Step 4**

Reinstall the interlock assembly removed in **Step 2**.

**Step 5**

Reinstall the front cover removed in **Step 1**.
Checking

Step 6
Functionally check the interlock by checking the positions of the latch assembly with the associated status of the breaker.

![Diagram](image)

Figure 6. Step 6

**Visual inspection**

Step 7
Verify that all system power is OFF.

Step 8
Verify that breaker is in “Connect” position.

Step 9
Depress the plunger until rear face of the plunger can is in-line with front edge of cassette side sheet.

Step 10
Verify slider bracket is not in contact with breaker wire form.
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