Undervoltage release in Magnum low voltage circuit breakers

⚠️ 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.

Section 1: General information

The undervoltage release (UVR) opens the circuit breaker when its supply voltage falls to between 35–60% of rated voltage. If the release is not energized to 85% of its supply voltage, the circuit breaker cannot be closed electrically or manually.

Section 2: Installation of UVR

To install the UVR, proceed with the following six steps:

Step 1: Remove the front cover by unscrewing the hex-head captive bolts (four for three-pole, six for four-pole) that join the cover to the breaker housing using a 10 mm 1/4-inch drive socket. Then hold the charge handle down approximately 45 degrees to pull off the cover.

Step 2: Place the appropriate label on the front cover nameplate space located under “Accessories.”

Figure 1. Steps 1 and 2

Step 3: Slide the lock on the UVR to the unlocked (up) position. Install the hook feet down through openings as shown. Then slide the UVR forward until the feet engage the mounting plate. Slide the lock down into the locked position.

Figure 2. Step 3
Step 4: Connect wires from the UVR to secondary contact block “A,” positions 7 and 8, in keeping with markings on wires.

Figure 3. Step 4

Step 5: If a second UVR is to be installed, repeat Step 3 and wire to Secondary Block “B,” positions 10 and 11.

Figure 4. Step 5

Step 6: Reinstall front cover removed in Step 1.

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