Magnum Shutter Module (MSM)—user instructions

**WARNING**

(1) ONLY QUALIFIED ELECTRICAL PERSONNEL SHOULD BE PERMITTED TO WORK ON THE EQUIPMENT.

(2) DO NOT ATTEMPT TO INSTALL OR PERFORM MAINTENANCE ON THE EQUIPMENT WHILE ENERGIZED. ALWAYS VERIFY THAT NO VOLTAGE IS PRESENT BEFORE PROCEEDING.

(3) ALWAYS DE-ENERGIZE PRIMARY AND SECONDARY CIRCUITS BEFORE REMOVING CIRCUIT BREAKER.

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

**CAUTION**

SPECIFIC OPERATING PROCEDURES MUST BE DEVELOPED BY THE RESPONSIBLE PARTY, BECAUSE OF THE UNIQUE APPLICATION AND VAST VARIETY OF SYSTEM AND USER REQUIREMENTS. FAILURE TO DEVELOP SPECIFIC PROCEDURES COULD LEAD TO IMPROPER USE OR OTHER MORE SERIOUS CONSEQUENCES.

**DANGER**

HAZARDOUS VOLTAGE. WILL CAUSE SEVERE INJURY OR DEATH. DO NO OPEN SHUTTER IF THE EQUIPMENT IS ENERGIZED.

**Instructions**

To test the operation of the shutters inside a breaker cell:

1. Open the Magnum™ breaker door.
2. Remove circuit breaker if installed.
3. Extend the rails of the Magnum breaker cassette.
4. If necessary, pull spring plunger and rotate handle of MSM to the Start/Disengaged position. See Figure 1 and Figure 2.
5. Place MSM onto the extended breaker cassette rails. Ensure that the carrier blocks of the MSM are fully seated on rails. See Figure 3.

6. Push MSM into breaker cassette until the claw shaft engages the rack-in paws on the breaker cassette bottom pan. See Figure 4.

7. Rotate handle of MSM to the Finish/Engaged position so that the spring plunger engages hole on handle shaft. Verify that spring plunger is fully inserted into hole in handle shaft before releasing the handle. See Figure 5.

To remove the MSM from the breaker cassette:
1. Pull spring plunger and rotate handle of MSM to the Start/Disengaged position.
2. Extend the rails of the Magnum breaker cassette.
3. Using the handles on the sides of the MSM, lift the MSM off of the cassette rails.
4. Push cassette rails completely into breaker cassette and close breaker door.