



## **Low Voltage Molded Case Circuit Breaker With Thermal Magnetic Trip Inspection Steps:**

### **1. Case**

- Ensure that the nameplate/label data is legible
- Ensure that the third party listing service label is legible
- Inspect the case for cracks, chips and unused holes
- Inspect the case for signs of over heating
- Inspect all control wire for signs of deterioration, overheating and damage
- Inspect for missing parts

### **2. Lugs**

- Inspect for tightness
- Inspect for signs of overheating
- Inspect plating
- Inspect for signs of cross threads and stripped threads

### **3. Operating Mechanism**

- Inspect for signs of rust and corrosion
- Inspect for excessive and inappropriate lubrication
- Inspect for missing screws, bolts, nuts, fasteners, retainers and keepers
- Manually operate circuit breaker a minimum of 3 times while checking for proper operation of the quick-make and quick-break feature

### **4. Interphase separators**

- Inspect for dust, dirt and foreign materials
- Inspect for chips, cracks and deterioration
- Inspect for overheating

### **5. Arc Extinguishers/Chutes**

- Inspect for loose and missing parts
- Inspect for dust, dirt, foreign material, cracks chips and signs of overheating
- Inspect for excessive deterioration and carbon buildup on the metal separator
- Inspect arc runners for excessive deterioration

### **6. Arcing Contacts**

- Inspect for excessive deterioration
- Inspect for cracks, chips and pitting
- Check for proper alignment/seating in the closed position

### **7. Main Contacts**

- Inspect for excessive deterioration
- Inspect for cracks, chips and pitting
- Check for proper alignment/seating in the closed position

### **8. Current Carrying Components**

- Inspect hinge/pivot joints for signs of overheating
- Inspect hinge/pivot joints for missing and defective parts
- Inspect any other current carrying components for signs of overheating
- Inspect any other current carrying components for missing and defective parts

### **9. Thermal/Magnetic Trips**

- Inspect for signs of overheating
- Inspect for corrosion and rust
- Inspect unit for missing and defective screws, bolts, nuts, fasteners and keepers
- Check for loose connections
- Check for proper sizing