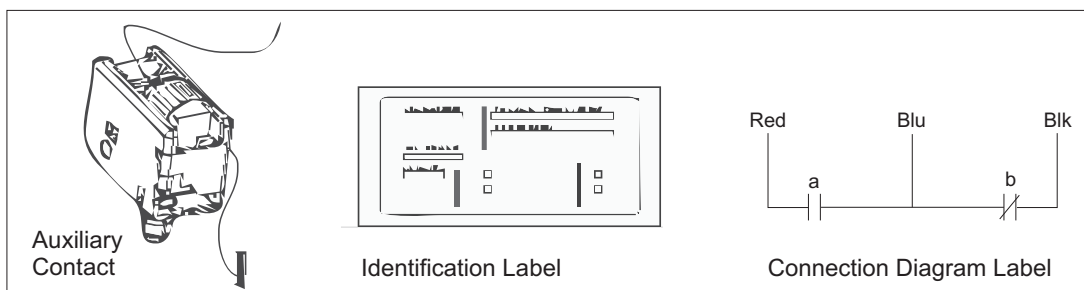


# **Instruction Leaflet for Auxiliary Contact with Overload Relay Function (Automatic Reset) for JG & LG-Frame Motor Protection Circuit Breaker**

The auxiliary contact with overload relay function (automatic rest) is designed for use with the JG and LG Motor protector circuit breakers (MPCB). This device works with the overload function selected on the face of the breaker to open the motor control circuit (de-energize the motor contact coil) in the event of a motor overload condition.

The functionality is as follows:

The user selects Class 10, 15,20 or 30 Overload protection for the motor on the MPCB trip unit. When the breaker detects an overload that is 80% of the selected overload class, the auxiliary contact with overload relay function is energized, opening the motor control circuit without tripping the breaker. This allows for the motor to be remotely reset without having to manually reset the breaker, as one would have to do if the breaker had tripped on its own.

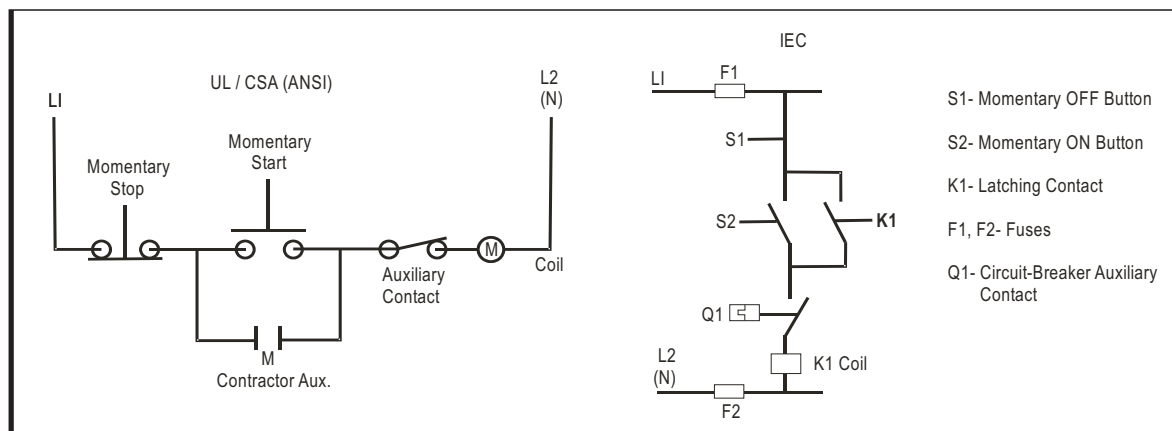


*Auxiliary Contact with Overload Relay Function (Automatic Reset)*

## **1 Application Information**

| Max. Switching Voltage | Rated Switching Current | Max. Switching Capacity |
|------------------------|-------------------------|-------------------------|
| 250VAC                 | 8A at 250VAC            | 2000VA                  |
| 125VDC                 | 5A at 30VDC             | 150W                    |

*Table 1-1 Relay Contact Ratings*



*Figure 1-2 Wiring Diagram*

## 2 Installation

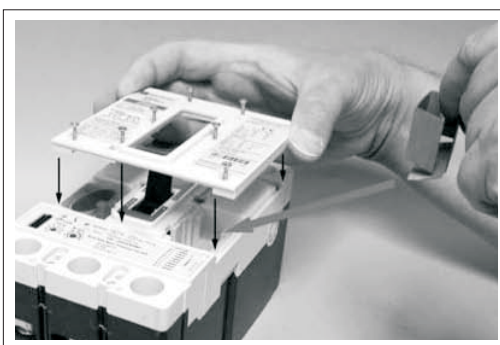


### WARNING

DEATH OR SEVERE INJURY CAN RESULT FROM CONTACT WITH ENERGIZED EQUIPMENT. DO NOT ATTEMPT TO INSTALL OR PERFORM MAINTENANCE ON EQUIPMENT WHILE IT IS ENERGIZED. ALWAYS VERIFY THAT NO VOLTAGE IS PRESENT BEFORE PROCEEDING . FOLLOW ALL SAFETY PROCEDURES. EATON IS NOT LIABLE FOR MISAPPLICATION OR IMPROPER INSTALLATION OF ITS PRODUCTS.

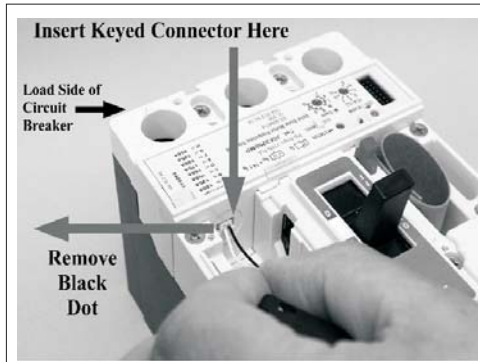
### JG - Frame

1. Remove the breaker cover and sleeve.

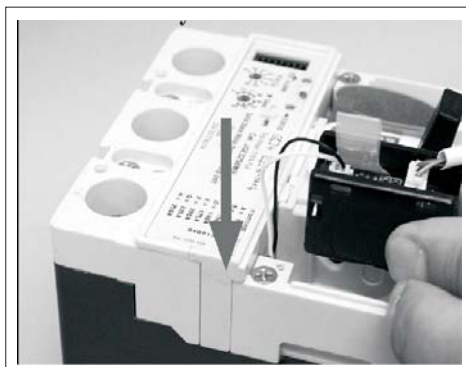


2. Install auxiliary contact (right pole only).

2a.

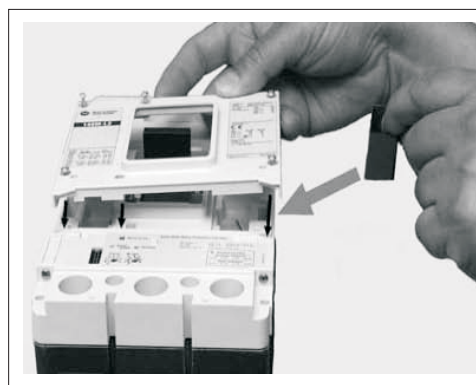


- 2b. Push auxiliary contact into socket.



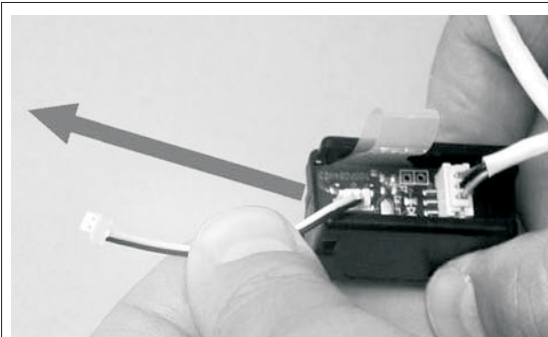
### LG - Frame

1. Remove the breaker cover and sleeve.



**LG - Frame****2. Install auxiliary contact (right pole only).**

**2a.** Unplug small wire.



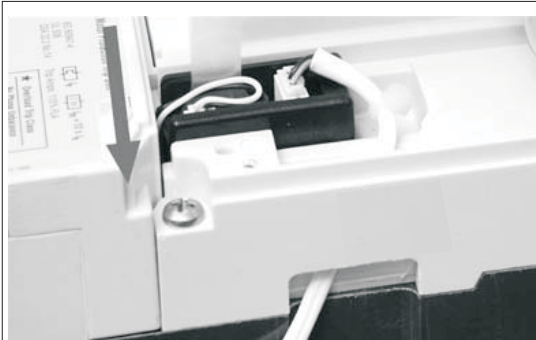
**2b.** Locate small wire on trip unit.



**2c.** Plug small wire from trip unit into the auxiliary

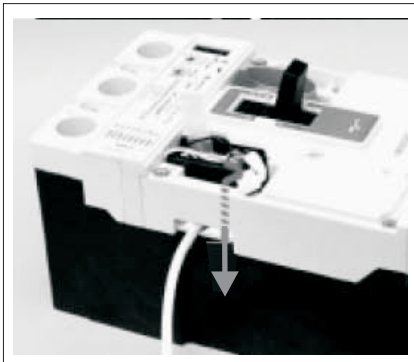


**2d.** Push auxiliary contact into



**JG - Frame**

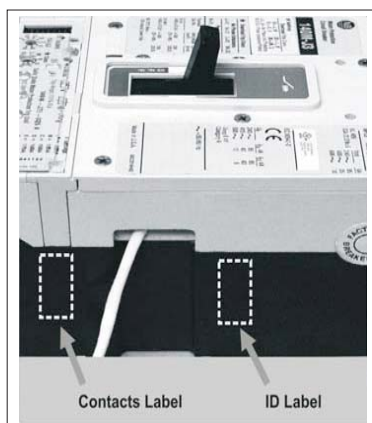
3. Route wires along path of arrow.



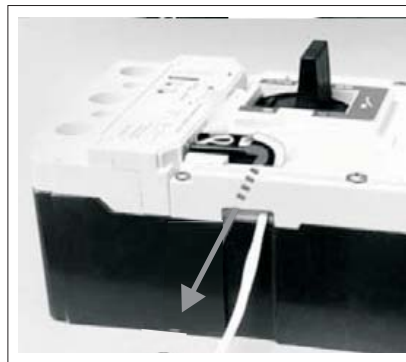
4. Reinstall breaker cover.



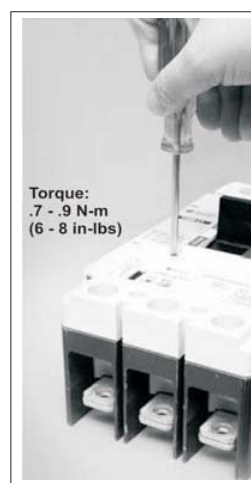
5. Affix labels.

**LG - Frame**

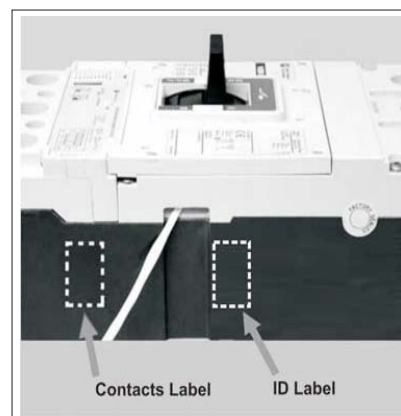
3. Route wires along path of arrow.



4. Reinstall breaker cover.



5. Affix labels.



### 3 Testing

#### Testing the Auxiliary Contact

|                             |                          |                            |
|-----------------------------|--------------------------|----------------------------|
| When Relay is Not Energized | Between Red & Blue Leads | Between Black & Blue Leads |
| Continuity                  | NO                       | NC                         |
| When Relay is Energized     | Between Red & Blue Leads | Between Black & Blue Leads |
| Continuity                  | Closes                   | Opens                      |

Table 3-1: Continuity Test

### 4 Removal

Removal is the reverse of the installation procedure. Remove switch by pulling straight up tab (see Figures 4-1 and 4-2). Be sure to reinstall the sleeve removed in Section 2, step 1.

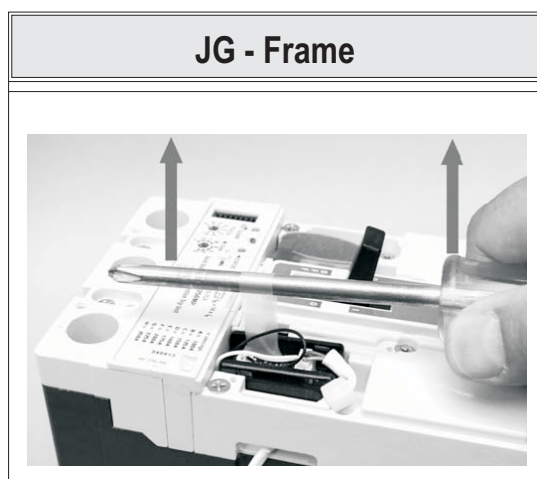


Figure 4-1: Accessory Switch Removal JG-Frame

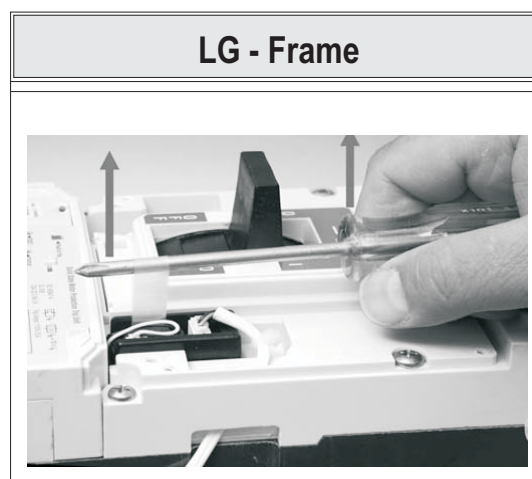


Figure 4-2: Accessory Switch Removal LG-Frame

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**NOTES:**

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