

Remote Reset Module for MOTOR LOGIC™ Solid-State Overload Relay Class 9999 Type RR04

INTRODUCTION

This module is for resetting a MOTOR LOGIC™ solid-state overload relay (Class 9065 Type SS, SF, SR and ST) from a remote location. The remote reset module is energized by a 110/120 VAC 50/60 Hz source through a normally-open (N.O.) push button. It allows a tripped, solid-state overload relay to be reset from a distance of up to 150 ft (46 m).

INSTALLATION

⚠ DANGER

HAZARDOUS VOLTAGE.

Disconnect all power before installing or servicing equipment.

Electrical shock will cause severe injury or death.

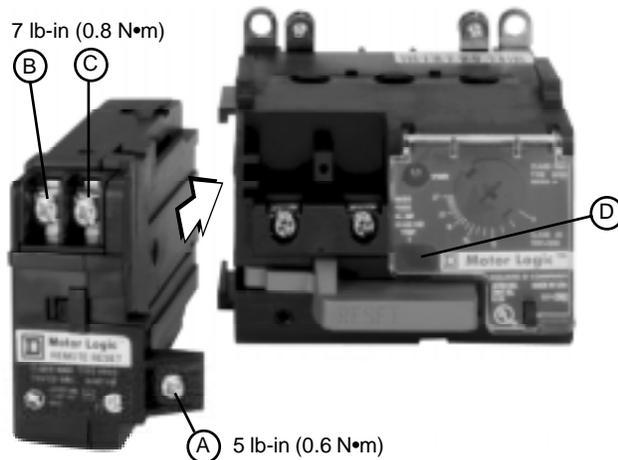


Figure 1 Remote Reset Installation

1. Disconnect all power from the cabinet containing the overload relay.
2. Slide the module onto the overload relay (see Figure 1). The bottom of the module mounting tab must be flush with the housing of the overload relay.
3. Tighten the remote reset mounting screw (A) to 5 lb-in (0.6 N•m). Excessive torque could damage the mounting tab and affect the module's performance.

⚠ CAUTION

INCORRECT MOUNTING HAZARD.

Use the mounting screw provided with the remote reset module.

Incorrect mounting screw can result in equipment damage.

4. Connect a 110/120 VAC separate control source, via a N.O., momentary contact push button, to the remote reset module terminal (B and C). Refer to Typical Control Diagram on page 2.

TERMINALS

Only use copper wire on remote reset terminals. Pressure wire control terminals are suitable for wire sizes AWG 16 to 12 (1.5 to 2.5 mm²), solid or stranded, and accept one or two conductors per terminal. Tightening torque: 7 lb-in (0.8 N•m).

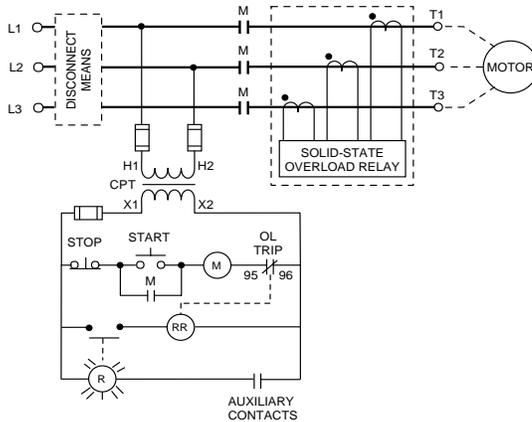


Figure 2 Typical Control Wiring

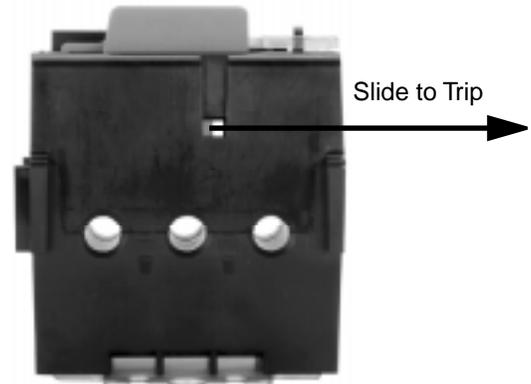


Figure 3 Manually Tripping the Overload Relay

TESTING

1. Verify that all power is disconnected.
2. Manually trip the solid-state overload relay (see Figure 3).
3. Energize control power.
4. Press the remote, momentary-action push button. If the reset module is properly installed, the overload relay will reset when the push button is pressed and the yellow flag in the trip indicator window (Item D in Figure 1) disappears.

OPERATION

The module resets the solid-state relay when the remote push button is actuated for a minimum of 0.25 seconds. The maximum allowable duty cycle for the remote reset module is five repeats of 2 seconds on/ 2 seconds off, followed by a fifteen minute off time. Exceeding this duty cycle impairs the proper function of the remote reset module.

Each time the remote reset module is energized, it draws 270 VA (2.2 A @ 120 VAC) for less than 0.5 s from the control power supply.

The maximum recommended wire run length for the module is 150 ft (46 m) for dry environments. A transient suppression module (Class 9999 Type ST1) should be wired across the remote reset device terminals (B and C Figure 1) to achieve this distance for wet wire environments.

Note: This device is not intended for use with solid-state output contacts.

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