

LUTRON®

For Your Information ...

APPLICATION
NOTE

#29

HomeWorks™ Motor Interlock Module

Overview

The HomeWorks™ Motor Interlock Module (HW-RPM-4M-120) can be used to control four 120 VAC motors. Typical applications include motors for drapes, shades, and hurricane shutters. Each motor channel has two relay outputs that are mechanically interlocked to ensure both outputs are never simultaneously powered.

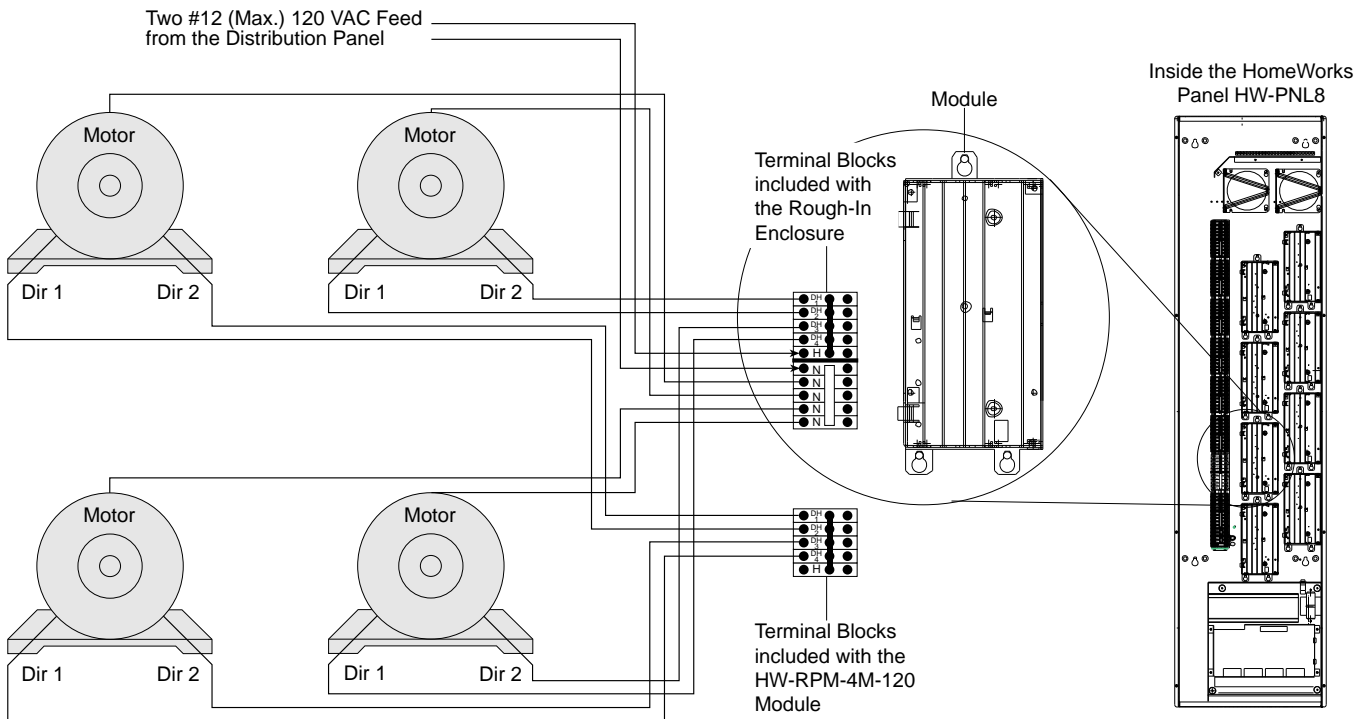
Wiring

Electrical Ratings

Input Feed: 120 VAC, 20 Amps, Single Phase

Output Contact Rating: 120 VAC, 5 Amps (1/4 HP)

Total Module Capacity: 16 Amps (1920 Watts)



Programming Guidelines

A motor module zone can be programmed to a HomeWorks keypad using the HomeWorks Programming Utility (HW-WPU). A keypad assigned to control a motor zone may be configured in several ways:

- 1. A single button to select a preset scene which may include lighting, motors, relays, etc.** The button is typically programmed as a TOGGLE or ALWAYS ON function with scene LED logic. Turning the scene OFF does not reverse the motor, it simply stops it in the OFF state.
- 2. Two buttons used: "Open" and "Closed."** Pressing the button starts the action and pressing it again halts the action. The buttons are programmed as TOGGLE function with ZONE LED logic.
- 3. Three buttons used: "Open," "Closed," and "Stop."** Pressing "Open" or "Close" starts the action and pressing "Stop" halts it. The "Open" and "Close" buttons are programmed as ALWAYS ON function with ZONE LED logic. The "Stop" button would be programmed as ALWAYS OFF function with SCENE LED logic.
- 4. Two buttons used in a press and hold manner.** One button is used to "raise" the motor while it is held and the other button is used to "lower" the motor while it is held. Both buttons are programmed with the MAINTAINED function with ZONE LED logic.

Note: Only master keypads that utilize the new faceplate mounting (no visible fins) have this capability.

- 5. A single button (programmed as MAINTAINED function) which operates the motor in a manner similar to a garage door opener.** Pressing the button continually cycles the motor through the following states either from left to right or right to left: Open–Stop–Close.
- 6. Two additional buttons which may be used in conjunction with any of the above situations: "JOG UP" and "JOG DOWN."** LED logic is not applicable. Pressing these buttons energizes the motor for a brief period of time. The jog time can be programmed to be 0.25 second, 0.5 second, or 0.75 second for each motor. The buttons are programmed as ALWAYS ON function

A programmable time delay between switching each motor from the open state to the closed state or vice versa can be programmed to be 0.5 second, 1.0 second, or 1.5 seconds for each motor.

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If you need assistance call the toll-free
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(800) 523-9466 (U.S.A., Canada, and the Caribbean)
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