Isolation Relay for Parallel Motor Wiring

HARDWARE FEATURES

- Universal: 90—275VAC
- 4-wire AC Motor Protection
  - Eliminates Inductive Feedback
  - Isolates motor directions
- Flexible Mounting Options
  - 4 x 4mm mounting holes
  - Optional backing plate for direct mounting in metal junction or gang boxes.
- Small Size for Easy Installation

WORKS WITH...

- Most 4-Wire AC Motors
- Roller Shades
- Venetian Blinds
- Louvers
- Rack Arm Systems
- Skylights
- Operable Windows
- And more...

Line Voltage Output

- Compatible with most standard 4-wire AC motors
- Rated Current: 10A continuous; 15A Max. for max 4s at 10% duty factor

Physical Features

- Dimensions:
  55mm x 37mm x 24mm
  (2.17" x 1.46" x 0.95")

  55mm x 37mm x 30mm with backplate
  (2.17" x 1.46" x 1.19" with backplate)
- Mechanical Endurance: >30 x 10^6 operations

Motor Protection

- Parallel wiring normally exposes motors to inductive feed-back causing erratic movement and potential damage to motors and shading systems. The isolation provided by the ISO Relay makes this configuration safe and easy
- Multiple motors can be safely operated directly from a single line voltage switch or a single motor can be operated from multiple switches without risk of damage to the motor
- If both FORWARD and REVERSE directions are energized, FORWARD line to the motor will take priority and REVERSE will be disconnected.

Line Voltage Input and Control

- Universal 90-275 VAC at 50-60 Hz
- Worldwide Compatibility
- Must be matched to motor operating voltage
- Wire motors together in parallel on the same circuit with multiple ISO Relays

Flexible Mounting Options

- 4 x 4mm mounting holes
- Plastic backing plate (optional) protects from short circuits for direct placement in electrical junction or gang boxes eliminating the need for mounting screws.

Various types of switches or controllers can be used to control the isolated motors:
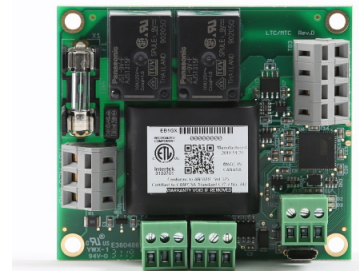

Key Lock Switches:
SWKL-3POS-MTN-PC
SWKL-3POS-MOM-M
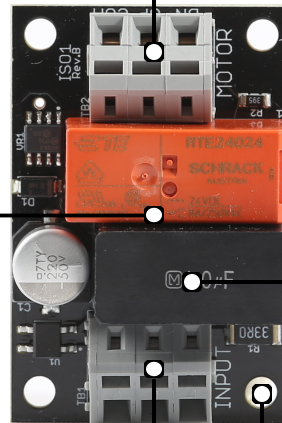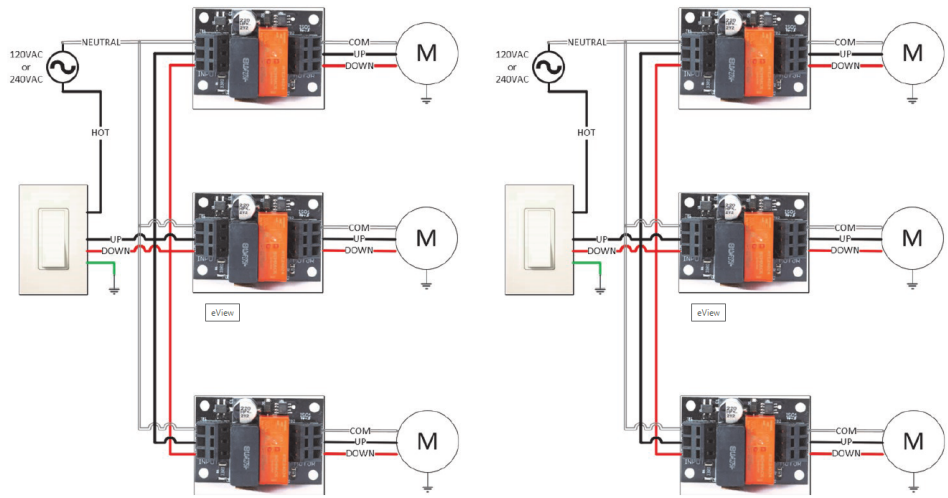
Rocker Switches:
SW-SPDT-MOM-DEC
SW-SPDT-MTN-DEC

Toggle Switches:
SW-SPDT-MOM-TOG
SW-SPDT-MTN-TOG

Motor Controllers:
Solarai™
Third-Party

Embedia

SOLARAI   ISO RELAY

COMPANION PRODUCTS

Motors

- Any 4-wire Standard Motor Switches

Key Lock

- SWKL-3POS-MTN-PC
- SWKL-3POS-MOM-M
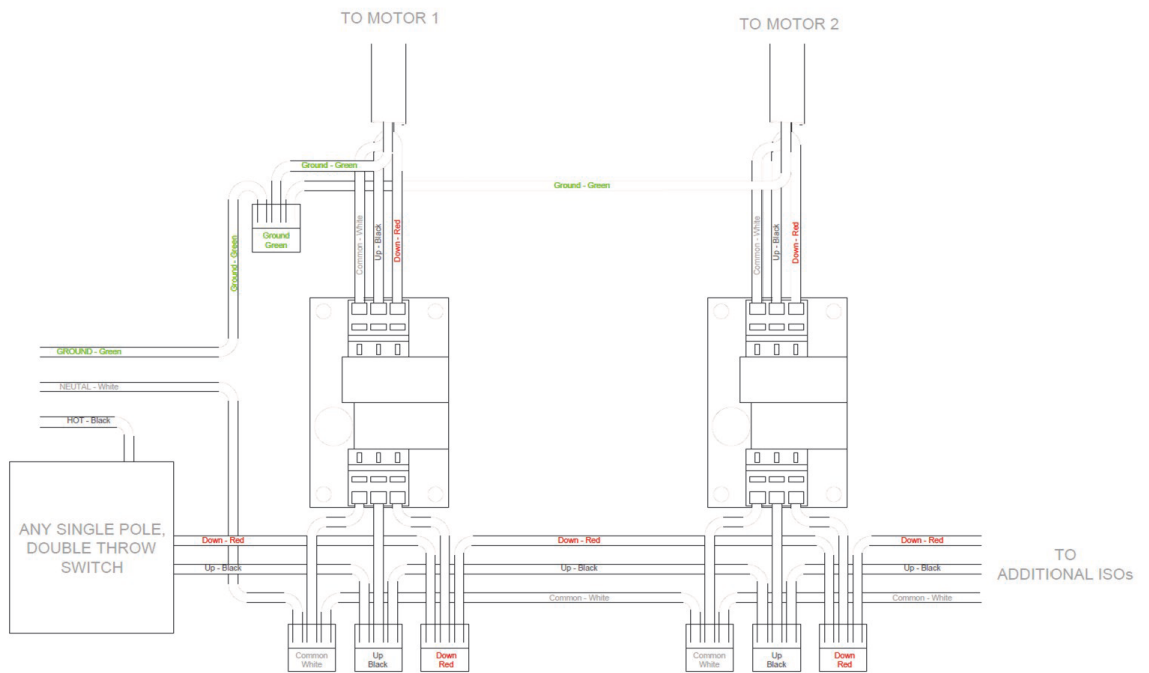
Rocker (Decorator)

- SW-SPDT-MOM-DEC
- SW-SPDT-MTN-DEC

Toggle

- SW-SPDT-MOM-TOG
- SW-SPDT-MTN-TOG

All Solarai™ Motor Controllers

- CORE
- GROUP
- PLUS

Third-Party Motor Controllers

Ordering Information

Orderable Part Number	Description
ISO1-BP	Isolating relay for 1 motor—with backing plate
ISO1-X	Isolating relay for 1 motor—with no backing plate

WARRANTY

All Embedia products carry a standard 2-year product replacement warranty. Extended 5 and 10 year warranties are available.

For more information on any of our products or services, please visit us on the Web at: http://www.embedia.com

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