

# Universal Motor Starting Relay Series UMSR



# Reduce Inventory! Wire-For-Wire Replacement For All Standard Potential Relays!

# For any single phase motor application up to 10 HP...

ICM's new **Universal Motor Starting Relay** incorporates patented differential voltage sensing and a non-positional mounting configuration to offer a single replacement for all standard potential relays. Great way to reduce inventory. Ideal for A/C, commercial refrigeration, heat pump or any singlephase motor application up to 10 HP.

## Features

- Replacement for all standard potential relays
- Patented differential voltage sensing
- No user-adjustments required
- Non-positional mounting configuration
- 30A and 50A switching capabilities
- Universal mounting bracket for easy installation
- .250" quick connect termination
- Safety timer
- Approvals: UL, CSA, cUL pending
- Ordering Info: UMSR30 (30A), UMSR50 (50A)



# **Specifications**

#### General:

#### • Input:

- Voltage Rating: 110-270 VAC, Single Phase
- Maximum Voltage Contact Rating: 502 VAC (absolute)
- Motor Power Rating: Up to 10 HP
- Operating Position: Non-positional
- Safety Time Out: Approximately 1-second per 100 microfareds
- Consumption: 5VA max.
- Insulation: Class B (130°C); Conforms to IEC 1000- standards (6kV impulse / 6kV contact)

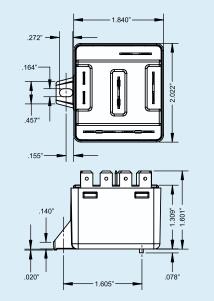
#### Life Expectancy (minimum operations)

- Mechanical: 1 x 106
- Electrical: 1 x 10<sup>6</sup> at 16A 400VAC
  5 x 10<sup>5</sup> at 35A 400VAC (break only)
  5 x 10<sup>5</sup> at 50A 400VAC (break only)

#### Contacts:

• Contact Rating: 30A (break only), 400 VAC cos Ø = 0.7 to 0.8 50A (break only), 400 VAC cos Ø = 0.7 to 0.8

# **Dimension Diagrams**



### Standard Wiring Diagram

Start

Run

Capacitor

Terminal 4 = Common Park Terminal

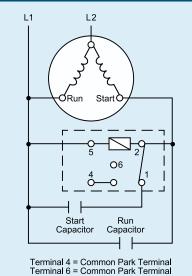
Terminal 6 = Common Park Terminal

Ͻ̈́Run

L2

L1

## Alternative Reduced Arcing Configuration



#### LIS181

Phone

315.233.5266

All features and specifications subject to change without notice.

Start

Capacitor

Application Assistance **800.365.5525** visit us at: www.icmcontrols.com

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