Emerson™
SureSwitch™ relay

Universal Electronic Upgrade
for Mechanical Compressor Contactors

49P11-843

SureSwitch Benefits
• 5x contactor life
• Sealed to keep out ants and debris
• Microprocessor control nearly eliminates contact welding and pitting
• Ideal install with new PM contract
• Compressor protected from brownouts and short cycling
• Save on pest control treatments

Sealed Relay Construction
The SureSwitch internal compressor relay is completely sealed from insects and debris.

General Ratings
Amps: 40 (FLA)  Coil: 24 VAC
Amps: 200 (LRA)  Pole: 1 or 1.5
Universal Electronic Upgrade for Mechanical Compressor Contactors

Features

- Microprocessor controlled sealed compressor switching
- Line voltage brownout protection
- Short cycle protection
- Tricolor LED displays
- Heavy-duty lug connectors
- Zero chatter latching relay
- Four-hole mounting matches mechanical contactors
- Random start delay on power up and brownout recovery
- Compressor test and cycle count by pushbutton

Performance Tested

The SureSwitch sealed relay has underwent exhaustive testing on Copeland 5-ton scroll compressors to demonstrate ultimate reliability. This technology has been utilized on OEM controls since 2006 and is now available for the Aftermarket.

Terminal Designations

<table>
<thead>
<tr>
<th>24 V</th>
<th>240 V</th>
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</thead>
<tbody>
<tr>
<td>Y C</td>
<td>C R L1 L2</td>
</tr>
<tr>
<td>1/4 Spades</td>
<td>Line</td>
</tr>
<tr>
<td>Lugs</td>
<td>1/4 Spades</td>
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</tbody>
</table>

Specifications

Electrical Ratings

Line Voltage Input ................................. 240 VAC, 50/60 Hz
Full Load Amperes (FLA) ......................... 40A
Locked Rotor Amperes (LRA) ..................... 200A
Control (Coil) Voltage (Y, C) ................... 24 VAC, 50/60 Hz

Recommended Terminal Torque – C, R, L1 and L2

#4 – 6 AWG ........................................ 45 in-lbs
#8 AWG ........................................... 40 in-lbs
#10 – 14 AWG .................................... 35 in-lbs

24 VAC (Y, C) Terminals are ¼” Male QC’s accepting #12-24 AWG wire

Timings

Anti-Short-Cycle Delay............. 0s or 180s (selectable) at 60 Hz
0s or 216s (selectable) at 50 Hz
Compressor Test ......................... 5s at 60 Hz
6s at 50 Hz

Dimensions

2-3/4” W x 2-3/8” H x 3-7/8” L

Operating Temperature Range

-40° to 158° F (-40° to 70° C)

Humidity Range

5 to 95% relative Humidity (non-condensing)

For Additional Information

Scan QR Code or visit us at www.white-rodgers.com

Agency Approval Pending

For Ultimate Copeland Scroll™ Protection, install CoreSense™ Protection

Emerson™

SureSwitch™ relay

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