Description
The 201-xxx-SP-DPDT Series is an 8-pin octal-base, plug-in voltage monitor designed to protect single-phase motors regardless of size. The 201-100-SP-DPDT is used on 95-120VAC, 50/60Hz motors to prevent damage caused by low voltage. The 201-200-SP-DPDT is used on 190-240VAC, 50/60Hz motors. The units feature two isolated sets of contacts that are ideal for use with two control circuits with different voltages.

The unique microcontroller-based voltage and voltage-sensing circuit constantly monitors the voltage to detect harmful power line conditions. When a harmful condition is detected, the MotorSaver’s output relays are deactivated after a specified trip delay. The output relays reactivate after power line conditions return to an acceptable level and a specified amount of time has elapsed (restart delay). The trip delay prevents nuisance tripping due to rapidly fluctuating power line conditions.

Must use Model OT08PC socket for UL Rating!

Note: Manufacturer’s recommended screw terminal torque for the RB Series and OT Series Octal Sockets is 12 in.-lbs.

Features & Benefits

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<tr>
<th>FEATURES</th>
<th>BENEFITS</th>
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<tr>
<td>Proprietary microcontroller based circuitry</td>
<td>Constant monitoring of voltage to detect harmful power line conditions, even before the motor starts</td>
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<td>Fixed trip delay 4s</td>
<td>Prevents nuisance tripping due to rapidly fluctuating power line conditions</td>
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<td>Advanced LED indication</td>
<td>Provides diagnostics which can be used for troubleshooting and to determine relay status</td>
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<tr>
<td>Compact design for 8-pin; DIN rail or surface mount</td>
<td>Allows flexibility in panel installation</td>
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Accessories

OT08PC  8-pin Octal Socket
Octal Socket for plug-in units. 8-pin surface & DIN rail mountable. Rated for 10A @ 600VAC.

Ordering Information

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<th>MODEL</th>
<th>INPUT VOLTAGE</th>
<th>DESCRIPTION</th>
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<td>201-100-SP-DPDT</td>
<td>95-120VAC</td>
<td>Two isolated Form C relays</td>
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<td>201-200-SP-DPDT</td>
<td>190-240VAC</td>
<td>Two isolated Form C relays</td>
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## Specifications

### Input Characteristics

- **Line Voltage:**
  - 201-100-SP-DPDT: 95-120VAC
  - 201-200-SP-DPDT: 190-240VAC
- **Frequency:** 50/60Hz

### Functional Characteristics

- **Low Voltage (% of setpoint):**
  - Trip: 90% +/-1%
  - Reset: 93% +/-1%
- **Trip Delay Times:**
  - Low Voltage: 4 seconds
- **Restart Delay Times:**
  - After a Fault or Complete Power Loss: 2 seconds

### Output Characteristics

- **Output Contact Rating (DPDT):**
  - Pilot Duty: 480VA @ 240VAC
  - General Purpose: 10A @ 240VAC

### General Characteristics

- **Ambient Temperature Range:**
  - Operating: -20°C to 70°C (-4°F to 158°F)
  - Storage: -40°C to 80°C (-40°F to 176°F)
- **Maximum Input Power:** 5 W
- **Relative Humidity:** 10-95%, non-condensing per IEC 68-2-3

## Standards Passed

- **Electrostatic Discharge (ESD):** IEC 61000-4-2, Level 3, 6kV contact, 8kV air
- **Radio Frequency Immunity, Radiated:** 150MHz, 10V/m
- **Fast Transient Burst:** IEC 61000-4-4, Level 3, 3.5kV input power and controls

### Safety Marks

- **UL (OT08PC octal socket required):** UL508 (File #E68520)
  - CE: IEC 60947-6-2
  - Dimensions:
    - H: 44.45 mm (1.75”);
    - W: 60.325 mm (2.375”);
    - D: 104.775 mm (4.125”) (with socket)
- **Weight:** 0.65 lb. (10.4 oz., 294.84 g)
- **Mounting Method:** DIN rail or surface mount
- **Socket Available:**
  - Model OT08PC (UL Rating 600V)
  - The 600V socket can be surface mounted or installed on DIN Rail