Description
The 201-xxx-SP series is an 8-pin octal-base, plug-in voltage monitor designed to protect single-phase motors regardless of size. The 201-100-SP is used on 95–120 V ac, 50/60 Hz motors to prevent damage caused by low voltage. The 201-200-SP is used on 190–240 V ac, 50/60 Hz motors. The 201-200-SP-T-9 is a pin-for-pin replacement for a Time Mark® #260 series voltage monitor. High voltage protection is included in the 201-200-SP-T-9.

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 relay is deactivated after a specified trip delay. The output relay reacts 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

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

Accessories

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

Ordering Information

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LINE VOLTAGE</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>201-100-SP</td>
<td>95–120 V ac</td>
<td>SPDT, protects single phase motors</td>
</tr>
<tr>
<td>201-200-SP</td>
<td>190–240 V ac</td>
<td>SPDT, protects single phase motors</td>
</tr>
<tr>
<td>201-200-SP-T-9</td>
<td>190–240 V ac</td>
<td>SPDT, direct replacement for Time Mark® #260 series</td>
</tr>
</tbody>
</table>
## Specifications

### Input Characteristics

<table>
<thead>
<tr>
<th>Line Voltage:</th>
<th>95–120 V ac</th>
</tr>
</thead>
<tbody>
<tr>
<td>201-100-SP</td>
<td></td>
</tr>
<tr>
<td>201-200-SP, 201-200-SP-T-9</td>
<td>190–240 V ac</td>
</tr>
<tr>
<td>Frequency</td>
<td>50/60 Hz</td>
</tr>
</tbody>
</table>

### Functional Characteristics

- **Low Voltage (% of setpoint)**
  - **Trip**: 90 %
  - **Reset**: 93 %

- **High Voltage (% of setpoint)**
  - **Trip**: 110 %
  - **Reset**: 107 %

- **Trip Delay Time**: 4 seconds
- **High/Low Voltage Fault Restart Delay Time**: 2 seconds
- **After a Fault**: 2 seconds
- **After a Complete Power Loss**: 2 seconds

### Output Characteristics

- **Output Contact Rating (SPDT)**: 480 VA @ 240 V ac
- **Pilot Duty**:
  - 10 A @ 240 V ac
- **General Purpose**:
  - 10 A @ 240 V ac

## General Characteristics

- **Ambient Temperature Range**
  - **Operating**: -40° to 70°C (-40° to 158°F)
  - **Storage**: -40° to 80°C (-40° to 176°F)

- **Maximum Input Power**: 5 W
- **Transient Protection (Internal)**: 2500 V for 10 ms

- **Safety Marks**
  - UL (OT08PC octal socket required)
  - UL 508 (File #E68520)

- **Dimensions**
  - **H**: 44.45 mm (1.75”); **W**: 60.325 mm (2.375”);
  - **D**: 104.775 mm (4.125”) (with socket)

- **Weight**: 0.8 lb. (12.8 oz., 362.87 g)
- **Mounting Method**: DIN rail or surface mount
  - (plug in to OT08PC socket)

- **Socket Available**
  - Model OT08PC (UL Rating 600 V)

The 600V socket can be surface mounted or installed on DIN Rail.