

## 201-XXX-SP-DPDT SERIES

### Single-phase voltage/phase monitor



### Description

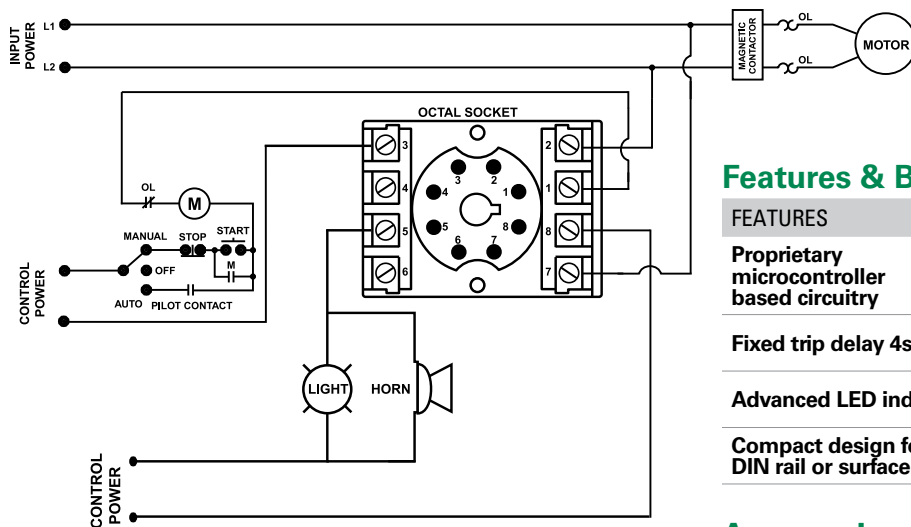
The 201-xxx-SP-DPDT Series is an 8-pin octal-base, plug-in voltage monitor designed to protect single-phase motors regardless of size. The 201-100-SP-DPDT is used on 95-120VAC, 50/60Hz motors to prevent damage caused by low voltage. The 201-200-SP-DPDT is used on 190-240VAC, 50/60Hz motors. The units 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.

### Wiring Diagram



### Features & Benefits

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

### Accessories



#### OT08PC 8-pin Octal Socket

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

### Ordering Information

| MODEL           | INPUT VOLTAGE | DESCRIPTION                |
|-----------------|---------------|----------------------------|
| 201-100-SP-DPDT | 95-120VAC     | Two isolated Form C relays |
| 201-200-SP-DPDT | 190-240VAC    | Two isolated Form C relays |

## 201-XXX-SP-DPDT SERIES

### Specifications

#### Input Characteristics

##### Line Voltage:

|                        |            |
|------------------------|------------|
| <b>201-100-SP-DPDT</b> | 95-120VAC  |
| <b>201-200-SP-DPDT</b> | 190-240VAC |
| <b>Frequency</b>       | 50/60Hz    |

#### Functional Characteristics

##### Low Voltage (% of setpoint):

|              |           |
|--------------|-----------|
| <b>Trip</b>  | 90% +/-1% |
| <b>Reset</b> | 93% +/-1% |

##### Trip Delay Times:

|                    |           |
|--------------------|-----------|
| <b>Low Voltage</b> | 4 seconds |
|--------------------|-----------|

##### Restart Delay Times:

|   |           |
|---|-----------|
| <b>After a Fault or Complete Power Loss</b> | 2 seconds |
|---|-----------|

#### Output Characteristics

##### Output Contact Rating (DPDT)

|                        |                |
|------------------------|----------------|
| <b>Pilot Duty</b>      | 480VA @ 240VAC |
| <b>General Purpose</b> | 10A @ 240VAC   |

#### General Characteristics

##### Ambient Temperature Range:

|                  |                              |
|------------------|------------------------------|
| <b>Operating</b> | -20° to 70°C (-4° to 158°F)  |
| <b>Storage</b>   | -40° to 80°C (-40° to 176°F) |

|                            |     |
|----------------------------|-----|
| <b>Maximum Input Power</b> | 5 W |
|----------------------------|-----|

|                          |                                       |
|--------------------------|---------------------------------------|
| <b>Relative Humidity</b> | 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**

UL508 (File #E68520)

**socket required)**

IEC 60947-6-2

**CE**

### 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

(plug in to OT08PC socket)

### Socket Available

Model OT08PC (UL Rating 600V)

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

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