

# 201-XXX-SP-DPDT SERIES

## Single-Phase Voltage/Phase Monitor



### Description

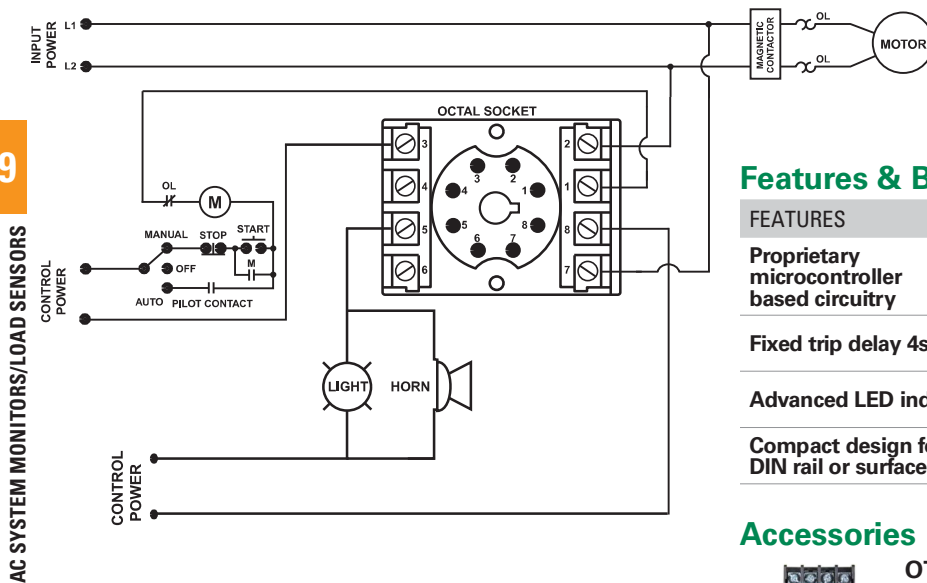
The 201-xxx-SP-DPDT Series is an 8-pin octal-base, plug-in voltage monitor designed to protect single-phase motors regardless of size. The 201-100-SP-DPDT is used on 95-120VAC, 50/60Hz motors to prevent damage caused by low voltage. The 201-200-SP-DPDT is used on 190-240VAC, 50/60Hz motors. The units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

For dimensional drawing see: Appendix, page 509, Figure 8.

### Ordering Information

MODEL	INPUT VOTAGE	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:

**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° to 70°C (-4° to 158°F)

**Storage** -40° to 80°C (-40° 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

(plug in to OT08PC socket)

#### Socket Available

Model OT08PC (UL Rating 600V)

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