

201-XXX-SP SERIES

Single-phase voltage/phase monitor





Wiring Diagram







PIN-OUT 1 (201-XXX-SP) (view of socket)

PIN-OUT 2 (201-200-SP-T-9) (view of socket)

Ordering Information

MODEL	LINE VOTAGE	DESCRIPTION
201-100-SP	95–120 V ac	SPDT, protects single phase motors
201-200-SP	190–240 V ac	SPDT, protects single phase motors
201-200-SP-T-9	190–240 V ac	SPDT, direct replacement for Time Mark [®] #260 series

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-T9 is a pin-for-pin replacement for a Time Mark® #260 series voltage monitor. High voltage protection is included in the 201-200-SP-T9.

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 reactivates 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

FEATURES	BENEFITS
Proprietary microcontroller based circuitry	Constant monitoring of voltage to detect harmful power line conditions, even before the motor starts
Fixed trip delay 4 s	Prevents nuisance tripping due to rapidly fluctuating power line conditions
Advanced LED indication	Provides diagnostics which can be used for troubleshooting and to determine relay status
Compact design for 8-pin; DIN rail or surface mount	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 10 A @ 600 V ac.

201-XXX-SP SERIES



Specifications

Input Characteristics

Trip

Trip

Reset

Pilot Duty

General Purpose

Trip Delay Time: High/Low Voltage Fault

Restart Delay Time: After a Fault

Output Characteristics Output Contact Rating (SPDT)

Reset

Line Voltage: 201-100-SP 201-200-SP, 201-200-SP-T-9 Frequency **Functional Characteristics** Low Voltage (% of setpoint)

190-240 V ac 50/60 Hz 90 % 93 % For 201-200-SP-T-9 only: High Voltage (% of setpoint)

110 % 107 %

95–120 V ac

4 seconds

2 seconds After a Complete Power Loss 2 seconds

480 VA @ 240 V ac

10 A @ 240 V ac

General Characteristics

Ambient Temperature Range Operating -40° to 70°C (-40° to 158°F) -40° to 80°C (-40° to 176°F) Storage **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) Model OT08PC (UL Rating 600 V) **Socket Available**

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