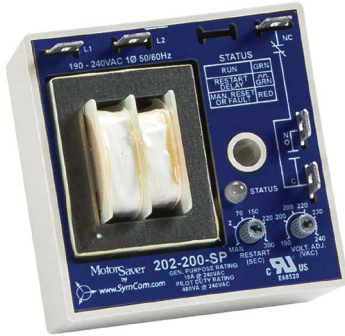


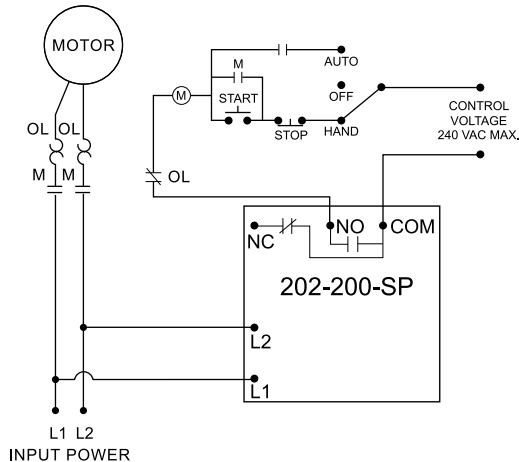
202-200-SP SERIES

Single-phase voltage monitor

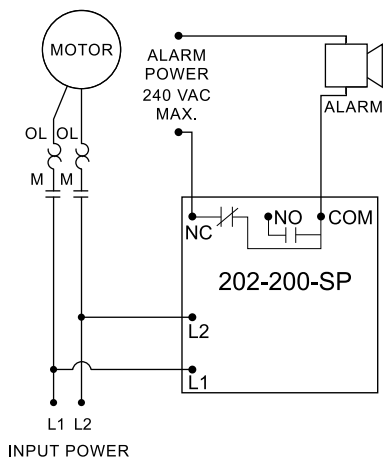


Wiring Diagram

TYPICAL WIRING DIAGRAM FOR MODEL 202-200-SP
WITH MOTOR CONTROL



TYPICAL WIRING DIAGRAM FOR MODEL 202-200-SP
WITH ALARM CONTROL



Description

The 202-200-SP Series voltage monitor is designed to protect single-phase motors regardless of size. It can be used with 190V-240VAC, 50/60Hz motors to prevent damage caused by incoming power problems.

A unique microcontroller-based 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.

Features & Benefits

FEATURES	BENEFITS
Proprietary microcontroller based circuitry	Constant monitoring of voltage to detect harmful power line conditions, even before a motor starts
Fixed trip delay 4s	Prevents nuisance tripping due to rapidly fluctuating power line conditions
Adjustable restart delay (Manual, 2-300s)	Allows staggered start up of multiple motors, after a fault, to prevent a low voltage condition
Advanced LED indication	Provides diagnostics which can be used for troubleshooting and to determine relay status
One screw mounting and standard 1/4" quick connect terminals	Fast installation and compact size perfect for panel assembly or OEM applications

Ordering Information

MODEL	LINE VOLTAGE	DESCRIPTION
202-200-SP	190-240VAC	SPDT, high and low voltage protection
202-200-SP-NHV	190-240VAC	SPDT, low voltage protection only

202-200-SP SERIES

Specifications

Input Characteristics

Line Voltage:

202-200-SP, 202-200-SP-NHV 190-240VAC

Frequency 50*/60Hz

Functional Characteristics

Low Voltage (% of setpoint)

Trip 90%

Reset 93%

High Voltage (% of setpoint)

(not available on -NHV model)

Trip 110%

Reset 107%

Trip Delay Time:

High and Low Voltage 4 seconds

Restart Delay Time:

After a Fault or Complete

Power Loss Manual, 2-300 seconds adj.

Output Characteristics

Output Contact Rating (SPDT)

Pilot Duty 480VA @ 240VAC

General Purpose 10A @ 240VAC

General Characteristics

Temperature Range

-40° to 70°C (-40° to 158°F)

Trip & Reset Accuracy

±1%

Repeatability

±0.5%

Input to Output Dielectric

1480 Vrms (min.)

Termination

0.25" male quick connect

Maximum Input Power

5 W

Relative Humidity

95%, non-condensing

Transient Protection

IEC 61000-4-5, ±4kV

Safety Marks

UL, UL Recognized

UL508 (File #E68520)

Dimensions

H 63.5 mm (2.5"); **W** 63.5 mm (2.5");

D 35.56 mm (1.4")

Weight

0.5 lb. (8 oz., 226.8 g)

Mounting Method

1/4" socket head cap screw
(customer supplied)

*Note: 50Hz will increase all delay timers by 20%.