

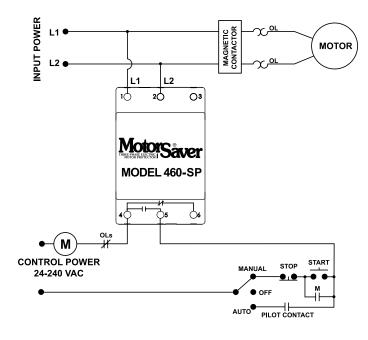
## 460-XXX-SP SERIES

### Single-phase voltage monitor





#### **Wiring Diagram**



#### **Description**

The 460-100-SP is used on 95–120 V ac, 50\*/60 Hz single-phase motors and the 460-200-SP is used on 190-240 V ac, 50\*/60 Hz single-phase motors to protect them from damaging high and low voltage conditions. An adjustment knob allows the user to set a 1–500 second restart delay. The variable restart delay is also a power-up delay and can be utilized to stagger-start motors on the same system.

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 4 s	Prevents nuisance tripping due to rapidly fluctuating power line conditions
Adjustable restart delay (1–500s)	Allows staggered start up of multiple motors on the same system to prevent a low voltage condition
Advanced LED indication	Provides diagnostics which can be used for troubleshooting and to determine relay status
DIN rail or surface mountable	Allows flexibility for panel assembly

## **Ordering Information**

MODEL	LINE VOTAGE
460-100-SP	95-120 V ac
460-200-SP	190–240 V ac



## 460-XXX-SP SERIES

### **Specifications**

**Input Characteristics** 

Line Voltage 460-100-SP 95-120 V ac 460-200-SP 190-240 V ac 50\*/60 Hz Frequency

**Functional Characteristics** Low Voltage (% of setpoint):

90 % ±1 % Trip Reset 93 % ±1 %

High Voltage (% of setpoint)

Trip 110 % ±1 % Reset 107 % ±1 %

**Trip Delay Time** 

Low or High Voltage 4 seconds fixed

**Restart Delay Time** 

After a Fault 1-500 seconds adjustable After a Complete Power Loss 1-500 seconds adjustable

**Output Characteristics Output Contact Rating** 

(1 Form C)

**Pilot Duty** 480 VA @ 240 V ac, B300 **General Purpose** 10 A @ 240 V ac

**General Characteristics** 

**Ambient Temperature Range** 

-40° to 70°C (-40° to 158°F) Operating -40° to 80°C (-40° to 176°F) Storage

**Maximum Input Power** 

**Class of Protection** IP20, NEMA 1 (finger safe)

**Relative Humidity** 10-95%, non-condensing per IEC 68-2-3

**Terminal Torque** 

Wire Type Stranded or solid 12-20 AWG, one per terminal

#### **Standards Passed**

Electrostatic Discharge (ESD) IEC 61000-4-2, Level 3, 6 kV contact, 8 kV air

Radio Frequency Immunity,

Radiated 150 MHz, 10 V/m

**Fast Transient Burst** IEC 61000-4-4, Level 3, 3.5 kV input power

and controls

Surge

IEC IEC 61000-4-5, Level 3, 4 kV line-to-line;

Level 4, 4 kV line-to-ground

ANSI/IEEE C62.41 Surge and Ring Wave Compliance to a

level of 6 kV line-to-line

**Hi-potential Test** Meets UL 508 (2 x rated V +1000 V for 1 min)

**Safety Marks** 

UL UL 508 (File #E68520) **Enclosure** Polycarbonate

**Dimensions H** 88.9 mm (3.5"); **W** 52.93 mm (2.084");

**D** 59.69 mm (2.35")

0.9 lb. (14.4 oz., 408.23 g) Weight **Mounting Method** 35 mm DIN rail or Surface Mount

(#6 or #8 screws)

<sup>\*</sup>Note: 50 Hz will increase all delay timers by 20 %

## 单击下面可查看定价,库存,交付和生命周期等信息

# >>Littelfuse(美国力特)