

Features

Universal range from 190-480 VAC 50/60 Hz provides the versatility needed to handle global applications.

Bicolor LED indicator light is green in normal conditions and red during trip conditions.

Compact design saves precious panel space.

Microcontroller provides better accuracy and higher reliability than analog designs.

10A @ 240 VAC general purpose relay can switch most loads.



MotorSaver
THREE PHASE ELECTRIC
MOTOR PROTECTOR

Model 102LG
Three Phase
Voltage Monitor

•
**Engineered
Protection**

•
**Microcontroller
Based**

Model 102LG is a line to ground voltage monitor. It is used on 190-480 VAC, 50 to 60 Hz motors to prevent damage caused by low voltage conditions from line to ground.

A unique microcontroller-based voltage sensing circuit constantly monitors the three phase voltages to detect low line to ground voltage conditions. When any line ground voltage falls below the trip threshold, the MotorSaver's output relay is deactivated after a specified trip delay. The output relay reactivates after line to ground voltages return to an acceptable level for a specified amount of time (Restart Delay). The trip delay prevents nuisance tripping due to rapidly fluctuating power line conditions.

**Protects Three-Phase
motors from:**

- Low Voltage from Line to Ground

Additional features:

- UL and cUL Listed
- 5 Year Warranty
- Made in USA
- Optional Manual - 2-300 sec. Variable Restart Delay
- Surface Mount with Optional DIN Rail Mount

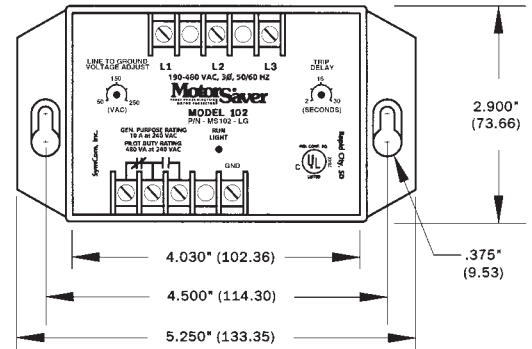
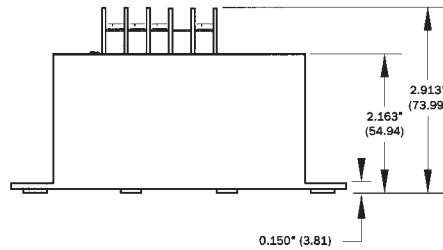


Motorsaver®

SINGLE-PHASE ELECTRIC MOTOR PROTECTOR

Model 102LG Three Phase Voltage Monitor

- Specifications
- Operating Points
- Special Options



Specifications

3-Phase Line Voltage190 to 480 VAC
Frequency50* or 60 Hz
Line to Ground Trip Adjustment Threshold ..50 - 250 VAC
 20 - 230 VAC**

Trip Delay Time

•Low Voltage from Line to Ground4 seconds

Restart Delay Time

•After a Fault from Line to Ground2 seconds
 •After a Complete Power Loss2 seconds

Output Contact Rating (SPDT)

•Pilot Duty480 VA @ 240 VAC
 •General Purpose10A @240 VAC

Transient Protection (Internal)IEC 1000-4-5:1995 to a level of ±6kV

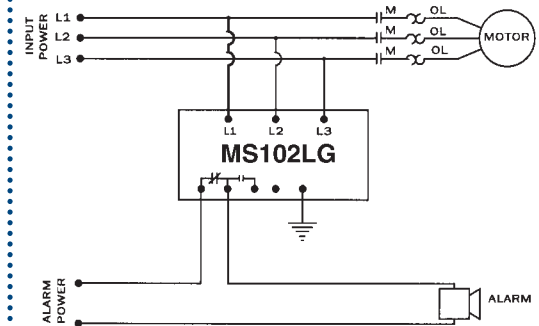
Power Consumption5 Watts (max.)

Weight14 oz.

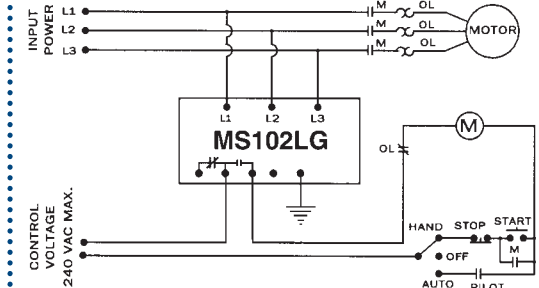
*Note: 50 Hz will increase all delay timers by 20%.

**Contact factory for order information.

TYPICAL WIRING DIAGRAM FOR MODEL 102LG WITH ALARM CIRCUIT.



TYPICAL WIRING DIAGRAM FOR MODEL 102LG WITH MOTOR CONTROL.



SymCom warrants its microcontroller-based products against defects in material or workmanship for a period of five (5) years from the date of manufacture. All other products manufactured by SymCom shall be warranted against defects in material and workmanship for a period of two (2) years from the date of manufacture. For complete information on warranty, liability, terms, returns, and cancellations, please refer to the SymCom Terms and Conditions of Sale document.

