

## Features

Compact design saves on precious panel space.

Microcontroller based provides better accuracy and higher reliability than analog designs.

A potentiometer is used to set the trip point anywhere from 2 - 135 A.

Sensor Power and output status LEDs.

SPDT relay can switch 480VA @ 240 VAC.

Screw terminals eliminate messy pigtail connections.



**Model LSR-24, LSR-115, & LSR-230** Load Sensors use current levels to determine feed rates, tool wear, loss of prime on pumps, mixer viscosity, and all types of over and under load conditions. They may also be used to stage pump motors, chillers, and other machinery. These devices combine a current transformer (CT) with Form C (SPDT) relay contacts to switch alarm circuits, contactors, or any resistive or inductive load. One simple screwdriver adjustment will calibrate the sensor for all single phase or three phase applications up to 100 Hp. The LSR-24 uses 24 VAC control voltage; the LSR-115 uses 115 VAC control voltage; and the LSR-230 uses 230 VAC control voltage.

**MotorSaver**  
THREE-PHASE ELECTRIC  
MOTOR PROTECTOR

**Model LSR-24  
LSR-115  
LSR-230  
Load Sensors**  
•  
**Engineered  
Protection**

### **Features:**

- CSA and CSA-NRTL/C
- 2 year Warranty
- Made in USA
- Standard surface mount
- Screw Terminal Connections
- Adjustable potentiometer

### **Critical applications include:**

- Fan motors
- Scroll compressors
- Grinders
- Conveyor systems
- Elevators
- Escalators

### **Switches loads based on current level changes associated with:**

- Motor failure
- Belt loss
- Broken shaft
- Bearing failure
- Heating element failure
- Load loss on fans or pumps
- Replaces differential pressure switch

# MotorSaver®

THREE-PHASE ELECTRIC MOTOR PROTECTOR

Specifications  
 •  
 Operating Points  
 •  
 Special Options

**Model LSR-24**  
**Model LSR-115**  
**Model LSR-230**  
**Load Sensors**

## Specifications

**Sensor Power**.....24, 115, or 230 VAC  
**Isolation**.....600 VAC rms  
**Trip Set-Point**.....Adjustable to +/- 1% range  
**Hole Size**.....0.725" diameter

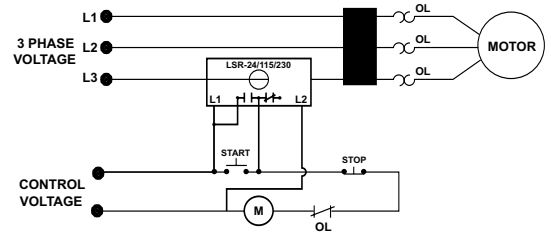
Caution: This product should not be relied upon solely in life or safety applications.

## Ordering Information

Model #	Amperage Range	Output Type	Output Rating (Pilot Duty)	Sensor Power	Adj. Trip Point	Output Status LED	Relay Status LED
LSR-24	2-135A	Form C Relay	480VA@240VAC	18-30 VAC	Yes	Yes	Yes
LSR-115	2-135A	Form C Relay	480VA@240VAC	85-135 VAC	Yes	Yes	Yes
LSR-230	2-135A	Form C Relay	480VA@240VAC	170-265 VAC	Yes	Yes	Yes

SymCom warrants its microprocessor 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.

TYPICAL WIRING DIAGRAM FOR LOAD LOSS DETECTION



TYPICAL WIRING DIAGRAM FOR OVERLOAD DETECTION

