

## Features

Compact design saves on precious panel space.

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

Output status LED.

SPDT relay can switch 480VA @ 240 VAC.

Screw terminals eliminate messy pigtail connections.



**Motorsaver**  
SINGLE-PHASE ELECTRIC MOTOR PROTECTOR

## Model LSRU-FC

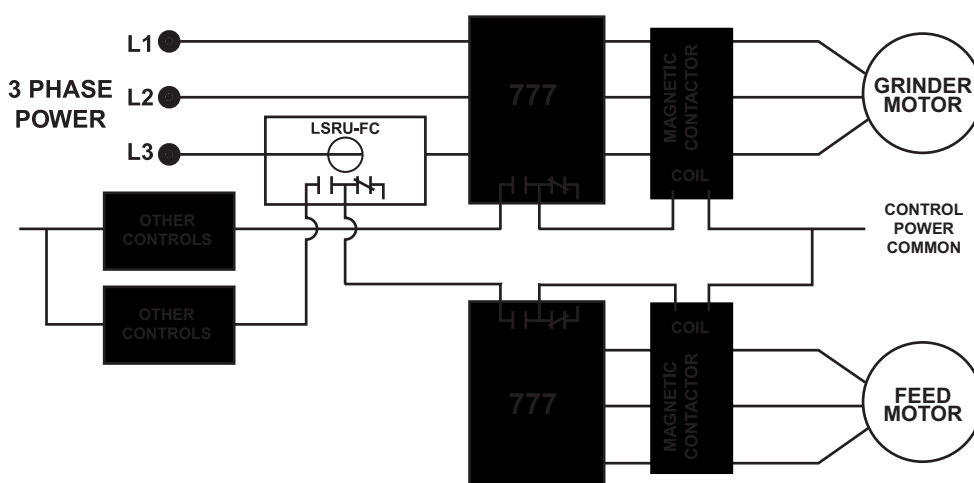
Load Sensors

Engineered Protection

Microcontroller Based

**Model LSRU-FC** is a load monitor intended to control feed mechanisms in a variety of applications. Sawmills, elevators, gravel quarries and other industrial sites use conveyers and augers to feed wood, grain, rock and other materials into cutting, chipping, grinding and material handling equipment. The Model LSRU-FC can also be used to control the cooling element in frozen drink machines, railroad car shakers, which are used to unload some railcars, and other unique applications. Model LSRU-FC optimizes these systems by stopping the feeder when the grinder, chipper, saw or auger nears overload. When the load is reduced to a preset level, the feeder is restarted.

The Model LSRU-FC can be combined with another load sensor or electronic overload relay to provide control and protection for the equipment. A complete system will optimally control the process as well as shut the entire system down if a jam occurs or a broken belt, shaft or chain stops the process.



### Features:

- CSA and CSA-NRTL/C
- 2 year warranty
- Made in USA
- Standard surface mount
- Screw terminal connections
- Adjustable potentiometers

### 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<sup>®</sup>

THREE-PHASE ELECTRIC MOTOR PROTECTOR

## Model LSRU-FC

### Load Sensor

#### Specifications

#### Operating Points

#### Special Options

#### Specifications

<b>Control Voltage</b>	<b>Range</b>
LSRU-024-FC-x .....	18 to 30 VAC
LSRU-115-FC-x .....	90 to 135 VAC
<b>Frequency</b> .....	50 to 60 Hz
<b>Power</b> .....	2 Watts maximum
<b>Current Range</b>	
LSRU-xxx-FC-0.5 .....	0-2 Amps
LSRU-xxx-FC-1 .....	0-5 Amps
LSRU-xxx-FC-1.5 .....	0-10 Amps
LSRU-xxx-FC-2 .....	5-25 Amps
LSRU-xxx-FC-3 .....	25-100 Amps
<b>Adjustments</b>	
Overcurrent (can not be set below UC) .....	Adjustable through entire current range.
Undercurrent (can not be set above OC) .....	Adjustable through entire current range.
Trip Delay .....	1 second
Restart Delay .....	0.5 second
<b>Repeatability @ 25° C</b>	
Current .....	±2%
Timing .....	±10%
<b>Isolation</b> .....	600 VAC
<b>Output Contact</b>	
Configuration .....	One electromechanical form C (SPDT)
Material .....	Silver/Tin Oxide
Pilot Duty Rating .....	480 VA @ 240 VAC
General Purpose Rating .....	10 A @ 240 VAC
Service Life	
Mechanical .....	10 million operations
Electrical .....	100,000 @ rated resistive load
Operation Frequency	
Mechanical .....	18 million operations/hour
Electrical .....	18,000 operations/hour @ rated load
<b>Temperature</b> .....	-20° C to 70° C (-4° F to 158° F)
<b>Terminal</b>	
Wire AWG .....	#12-#24
Maximum Torque .....	7 lb-in

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.

