

Protection Relays

Current Monitoring Relays and Transducers



Expertise Applied | Answers Delivered

LSR-XXX SERIES

Load sensor



Description

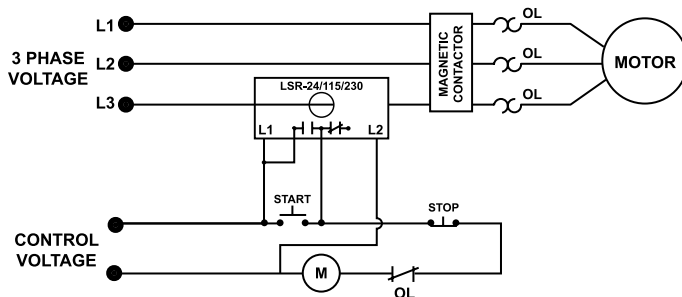
The LSR-xxx Series load sensors use current levels to determine feed rates, tool wear, loss of prime on pumps, mixer viscosity and all types of overload and underload conditions. They may also be used to stage pump motors, chillers and other machinery. These devices combine a current transformer (CT) 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 3-phase applications up to 100hp.

Features

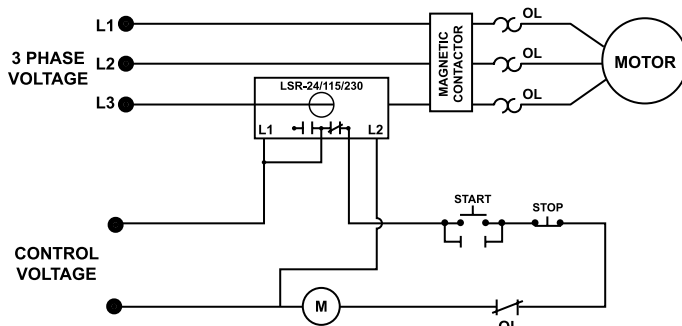
- Can monitor current of motors up to 100Hp
- Fine adjustment with 20-turn pot
- Status LEDs

Wiring Diagram

TYPICAL WIRING DIAGRAM FOR LOAD LOSS DETECTION



TYPICAL WIRING DIAGRAM FOR OVERLOAD DETECTION



Specifications

Functional Characteristics

Isolation	600VAC rms
Current Adjustment Range (Typical)	2-100A
Current Adjustment Range (Min-Max)	0.5-135A
Trip Setpoint	Adjustable to $\pm 1\%$ range

Input Characteristics

Control Power:	
LSR-24	24VAC
LSR-115	115VAC
LSR-230	230VAC
Max Current Ratings	135A max. continuous

Output Characteristics

Output Contact Rating (SPDT):	
Pilot Duty	480VA @ 240VAC
General Purpose	10A
General Characteristics	
Temperature Range	-20° to 70°C (-4° to 158°F)
Wire Size	#12-24AWG
Hole Size	0.725" diameter
Terminal Torque	7 in.-lbs.

Safety Marks

CSA, CSA-NRTL/C	(File #46510)
CE	IEC 60947

Dimensions

H 42.42 mm (1.67"); **W** 58.42 mm (2.3");

D 90.43 mm (3.56")

Weight 0.4 lb. (6.4 oz., 181.44 g)

Mounting Method Four #6 screws 3/4" in length

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

Ordering Information

MODEL	LINE VOLTAGE
LSR-24	24VAC
LSR-115	115VAC
LSR-230	230VAC