

DESCRIPTION

The 9042 is an innovative three phase current sensor family for current monitoring, motor protection, and basic motor control. The 9042 Series cost effectively combines three AC current transformers, a 3 Amp solid state relay with triac output, and a microcontroller. Simultaneously monitoring all three legs allows motor protection from over current, under current, missing leg, shorted leg, and unbalanced leg conditions.



SPECIFICATIONS

Sensing Ranges	0-25A, 0-50A, 0-100A, 0-250A
Sensor Frequency Range	50-60 Hz
All Trip Points	Adjustable
Response Times	20ms
Temperature Range	0-70°C
Maximum Wire Size	7/8"
Dimensions (L x W x H)	3.75 x 1.5 x 2 inches
Connections	6-32 Screw Terminals (2)
Operating Voltage	90-120VAC
Output Type	Normally Open Solid State Triac
Output Rating	3A continuous, 7A surge
Operating Current	30mA

ORDERING

Series	# of Sensors	Sensing Ranges
9042 C → 3 cores	1	→ 0-25A
	2	→ 0-50A
	3	→ 0-100A
	4	→ 0-250A

FEATURES

- Programmable
- Can control basic motor functions (time delays, cycling, controlled startup, etc.)
- Stores multiple over and under trip points with different delays
- 117 VAC 3 Amp solid state relay contacts
- Powered by SS relay contacts – only 2 connections
- Accommodate wires up to 7/8 inch
- Currents up to 250A
- Relay contacts are isolated from monitored lines
- Separate IR programming panel to prevent tampering

APPLICATIONS

- Pumping
- Irrigation
- Conveyors
- Loaders
- Fans and Blowers
- Ovens and Heaters
- Waste Management
- Material Handling
- Industrial Process Control