

DESCRIPTION

Model 4174 is a 100 A, 3 phase current sensor with adjustable settings for instantaneous trip, unbalanced phase detection, and delayed trip. The trip points are continuously adjustable. The Instantaneous output switches from 0 to Vcc on trip. The Delayed and unbalanced Outputs switch from Vcc to 0 on trip.



SPECIFICATIONS

Sensing Ranges	0-25A, 0-50A, 0-100A
Sensor Frequency Range	50-60 Hz
Instantaneous Trip Point	Adjustable
Delayed Trip Point	Adjustable
Delayed Trip Time	13 - 15 seconds
Unbalanced Trip Point	Adjustable
Unbalanced Trip Time	24 - 26 seconds
Response Times	20ms
Temperature Range	0-70°C
Maximum Wire Size	3/8"
Dimensions (L x W x H)	4.5 x 3 x 0.75 inches
Connections	6-32 Screw Terminals (5)
Operating Voltage	5VDC
Output Type	Comparator output with 10KΩ pull up
Output Rating	20mA @ 5VDC
Operating Current	5mA

ORDERING

Series	# of Sensors	Sensing Ranges
4174	C → 3 cores	1 → 0-25A
		2 → 0-50A
		3 → 0-100A

FEATURES

- Encapsulated to prevent environmental and physical damage
- Solid-state
- Accommodate wires up to 3/8 inch
- Currents up to 100A
- Outputs are isolated from monitored lines

APPLICATIONS

- Unbalanced Phase Detection
- Protects motors
- Increases Motor Life
- Pumping
- Irrigation
- Conveyors
- Loaders
- Fans and Blowers
- Ovens and Heaters
- Waste Management
- Material Handling
- Industrial Process Control