

### Thermistor Motor Protection Relay

### Auto Reset / Manual Reset

# SC 510 SC 511

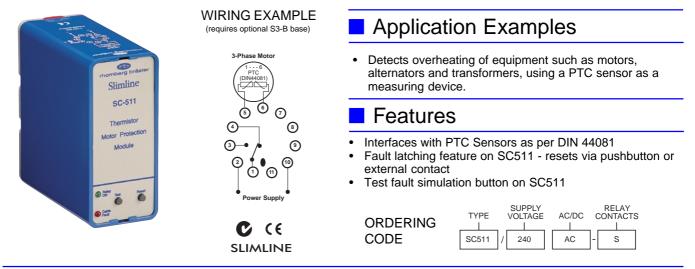
Short circuit current:

Response time:

Open-circuit detection: 10k ± 10%

1mA (max)

50 msec



Open circuit voltage:

Triggering threshold:

Recovery threshold:

Repetitive accuracy:

### Technical Specification

#### Power Supply:

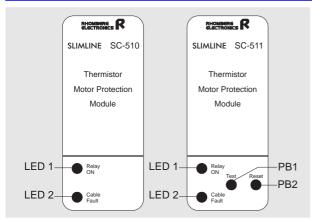
AC: 12, 24, 110, 240 (ie. 220-240), 400, 415, 525V ±15% Isolation (sensor input to power supply): 2kV DC: 10-30V, 48, 60, 110V ± 15%

Isolation (sensor input to power supply): no galvanic isolation.

#### Sensor Input:

Type: Input impedance: PTC Sensor as per DIN 44081 2200 ohms

### Description of Controls



LED 1: The LED marked "Relay ON" illuminates when the relay is energised.

3100 ohms ± 10%

1650 ohms ± 10%

<= 2.5V

(ie. 1 to 6 sensors can be connected): 1500 ohms

0.5%

Measuring Characteristics of the sensor:

Maximum cold resistance of TC sensor

Short-circuit detection: < 20 ohms

- LED 2: The LED marked "**Cable Fault**" illuminates when: - <=20 ohms occurs at the sensor input, or - an open circuit occurs on the sensor input
- PB1: The push-button marked "Test" may be used to simulate a fault condition.
- PB2: The push-button marked "Reset" may be used to restore the relay to normal operation once it has triggered due to some fault condition when using the latching feature.

## Operational Diagrams

