

PRELIMINARY DATASHEET



52.5mm (Width)

Features :

- PTC Input
- LED Indication : Power ON, Trip, Open, Short
- DIN Rail Mount
- DPDT Relay Output

Certifications : CE

Display Specifications

LED Indication	1. GREEN : Power ON Indication 2. YELLOW : Sensor Indication 3. RED : Relay status
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Input Specifications

Sensor type	PTC
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Output Specifications

Type of contact	DPDT
Contact rating	8A 250VAC
Contact material	AgSnO ₂
Max switching current	8A
Electrical life	1x10 ⁵ Operations
Mechanical life	1x10 ⁷ Operations

Functional Specifications

Relay operating mode	Failsafe mode Non-failsafe mode
Reset	Auto / Manual / Remote
Response time maximum	<100ms

Sensor Specifications

Sensor Short	: < 39Ω (±1Ω)
Sensor Healthy	: 42Ω (±1Ω) to <3.8KΩ(±40Ω)
Sensor Trip	: ≥3.8KΩ (±40Ω) to <5.6KΩ (±60Ω)
Sensor Open	: ≥5.6KΩ (±60Ω) & Above
Sensor Cut-in	: ≤1.5KΩ (±40Ω)

Auxiliary Supply Specifications

Supply Voltage	95-270V AC
Frequency	50-60 Hz
Power consumption	Approx. 3 Watts @ 230VAC
Initialization time	3 seconds

Environmental Specifications

Temperature	Operating : 0° to 50° C Storage : -20 to 70° C
Humidity (non-condensing)	10% to 95% RH

Mechanical Specifications

Mounting	Din Rail Mounting (size 35mm)
Type of connection	Terminal screw - 16A rating
Dimension	60 x 35 x 90mm
Housing	2M
Weight	115 g
Type of protection	IP20
No of terminals	11 (L, N, REMOTE, GND, PTC, NO1, NC1, C1, NO2, NC2, C2)

Ordering Information

Product Code	Output 1	Supply Voltage	Certification
TPRA2M1-1-U-CE	RELAY	95-270V AC / DC	CE