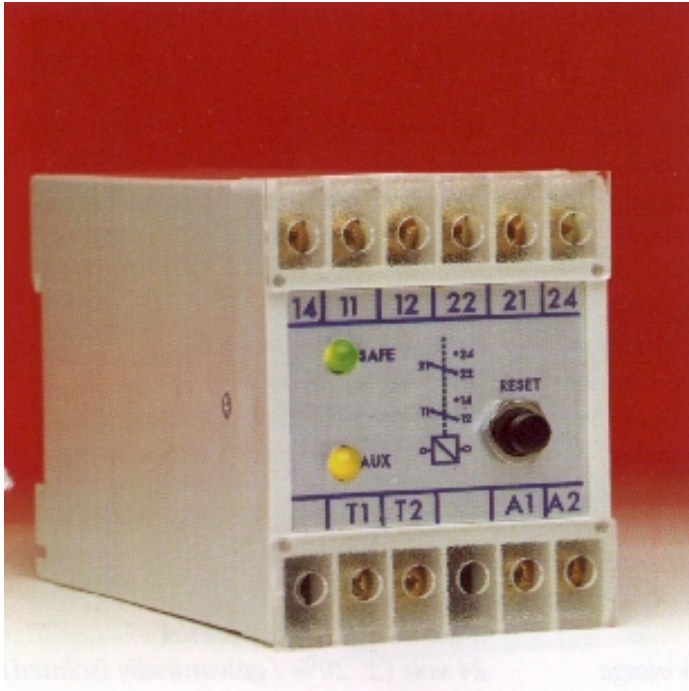




THERMISTOR TRIP



TECHNICAL SPECIFICATION

INPUT

Positive temperature coefficient thermistors < 1500 Ohms max at nominal temperature. Sensors can be connected in series but 1500 ohm must not be exceeded.

Trip point 2500-3500 Ohms
 Reset point 1500-2300 Ohms
 Total resistance of sensor loop 1500 Ohms max at nominal temperature

Differential Fixed 5%
 Repeatability Better than 5% of range

RESET

M200-TTA Automatic
 M200-TTM Manual via push switch on front of product

AUXILIARY

AC Voltage 115/230/400V
 ± 25% / 45-65Hz / 2VA
 DC Voltage 24 volt (± 20% / non isolated)
 < 3 watt

WEIGHT & CASE SIZE Approx. 0.3kg 55mm case

SELECTION GUIDE

M200- TTA Automatic reset
 M200-TTM Manual reset

TYPICAL APPLICATIONS

The M200 thermistor trip accepts positive temperature coefficient thermistor inputs. Typically used to monitor temperature in motor windings.

When the thermistor is below its predetermined temperature the resistance is low and the M200-TTA / TTM relay is energised. A green LED indicates the safe condition. When the temperature exceeds the predetermined temperature, the resistance of the thermistor rapidly increases, this increase in temperature is detected by M200-TTA/TTM and the relay is de-energised.

The M200-TTM is manually reset. Once the relay has de-energised it will stay de-energised regardless of the temperature being monitored. The relay can only be reset via the reset push button on the front of the unit. The M200-TTA automatically resets once the temperature has dropped below the trip point

A yellow LED is provided to indicate the condition of the power supply.

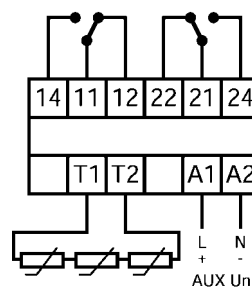
ORDERING INFORMATION

Product Code Aux Freq Options
 M200-TTA 230V 50Hz

OPTIONS

1. AC auxiliary in the range 57.7 to 480 volts
2. Calibration at temperature other than 23 C

CONNECTION DIAGRAMS



M200TTA M200TTM

GENERAL SPECIFICATIONS

ENVIRONMENTAL

Working temperature	0 to +60 deg C
Functional temperature	-25 to + 70 deg C
Storage temperature	-40 to +85 deg C
Temperature Coefficient	0.03% per deg C (300ppm/°C)
Relative humidity	95% non condensing
Class of climate	HSE complying with DIN 40040 -3 complying with VDE/VDJ 3540

INSULATION

Test voltage	4kV RMS 50Hz 1min between Input / Case /Auxiliary
Impulse test	EMC 5kV transient complying with IEC 801 / EN55020
HF interference test	EHF 2.5kv 1MHz complying with IEC 255-4
Protection class	II complying with IEC 348

APPLIED STANDARDS

General	IEC 144/ BS 5420/ VDE/ VDI 0435/ IEC 947/ EN60947
Safety	BS EN 61010 DIN 57411 / VDE 0411 ANSI C37
Surge withstand	IEC 801 / EN 55020 ANSI C37-90a
Radio screening	RFI degree N complies with VDE087S
EMC	Emissions EN50081-2 Immunity EN50082-1

RELAY OUTPUT

Relay type	dual pole change over
Material	Silver / Cadmium
Contact resistance	200mOhm max Typically <50m Ohm
Rating AC	250V 5A non resistive 1200VA
Rating DC	125V 1A resistive 120 watts
Electrical life	1 x 10 ⁶ at above load
Mechanical life	5 x 10 ⁶
Operating time approx.	7ms (20ms max)
Dielectric strength	Between coil and contacts 5kV RMS 1min Between open contacts 1kV RMS 1min Between adjacent contacts 1kV RMS 1min
Insulation resistance	1000M Ohm at 500V DC
Operating temperature	-30 to + 75 deg C
Approval	UL and CSA recognised

ENCLOSURE

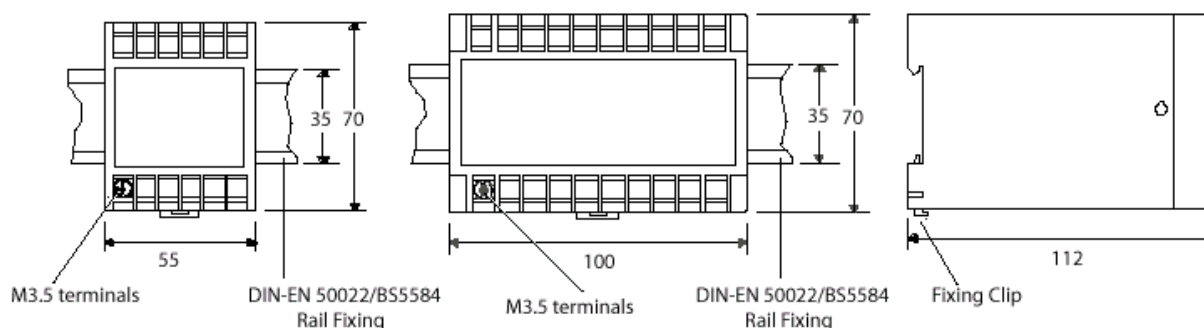
Fixing	Snap on to DIN rail 35 x7.5 mm complies with DIN-EN 50022 BS 5584
Mounting	Any position
Enclosure Code	Case IP 50/ terminals IP 30 Complies with IEC 529 BS 5490 DIN 40050
Material	Complying with UL 94 VO

APPROVALS

U.L. Approval File No E157034

CASE DIMENSIONS

All Dimensions in mm



Panel Components & Systems

