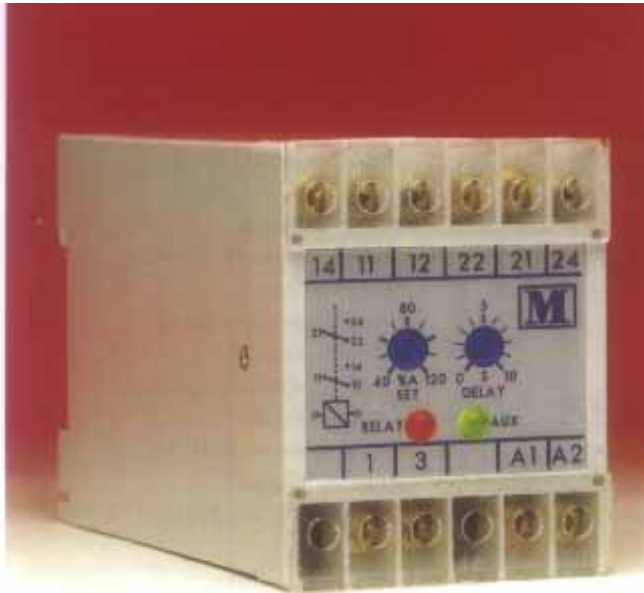


AC CURRENT



TECHNICAL SPECIFICATION

INPUT

Rated value In	1A or 5A from CT 0.2 to 10 Amp direct connected
Frequency	50 /60 /400 Hz
Burden	<0.5 VA per phase
Overload	2 x In continuous 10 x In for 3 seconds

SETPOINT

Range Over	Adjustable 40% to 120% In
Range Under	Adjustable 0% to 80% In
Repeatability	Better than 0.5% of full span
Differential	Fixed 5%
Time Delay seconds	Adjustable 200ms to 10

AUXILIARY

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

WEIGHT& CASE SIZE

Single units	Approx. 0.4kg. 55mm case
Combined units	Approx. 0.6kg. 100mm case

ORDERING INFORMATION

Product Code	Input	Freq.	Aux.	Options
M200-A30	5A	50Hz	230V	

OPTIONS

- 1.Adjustable time delay max 30 seconds
- 2.AC Auxiliary in the range 57.7 to 480 volts
- 3.Calibration at nominal Hz 35 450Hz
- 4.Calibration at temperature other than 23° C

SELECTION GUIDE

M200-A1U	Single phase under current
M200-A1O	Single phase over current
M200-A1C	Single Phase combined current
M200-A3U	3 Phase under current
M200-A3O	3 Phase over current

TYPICAL APPLICATIONS

The M200 AC current relays provide current monitoring and protection in both single and 3 phase systems. Used in applications such as motor protection, load detection and generator control.

Under over and combined under/over units are available.

The relay operates when the adjustable trip point is reached. An externally adjustable time delay is provided to prevent nuisance tripping.

As is common with all the M200 relays, on over units the relay energises when the input signal exceeds the trip point
On under units the relay de-energises when the input signal goes below the trip point.

A red LED indicates the state of the relay, whilst a green LED indicates the condition of the power supply.

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
Composition : Contact material	AgNi 90/10, AgNi 90/10 gold plated, AgSnO ₂

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 VDE0875
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 imin
Insulation resistance	1000M Ohm at 50OV DC
Operating temperature	-30 to + 75 deg C
Approval	UL and CSA recognised

ENCLOSURE

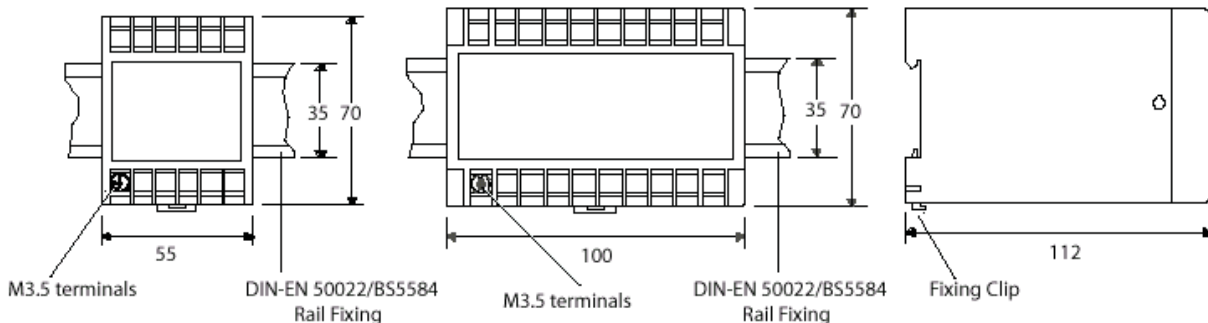
Fixing	Snap on to DIN rail 35 x7.5 mm complies with DIN-EN 50022 BS 5584
Mounting	Any position
Enclosure Code	Case IP 50/ terminals IP 30 Complies with IEC 529 BS 5490 DIN 40050
Material	Complying with UL 94 VO

APPROVALS

U.L. Approval File No E157034

CASE DIMENSIONS

All Dimensions in mm



AC CURRENT CONNECTION DIAGRAMS

