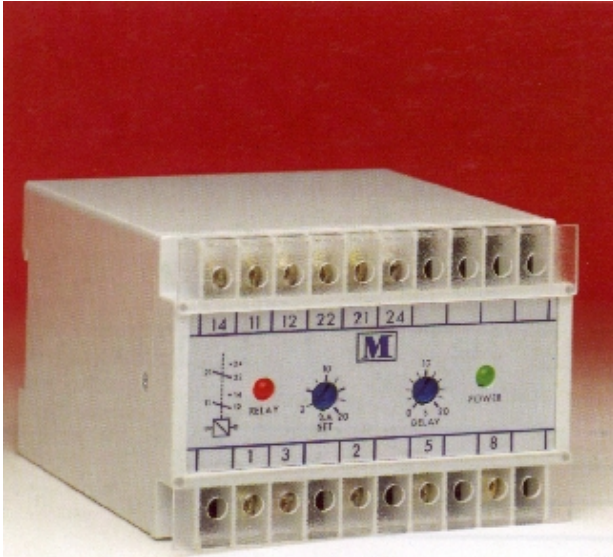




REVERSE POWER



TECHNICAL SPECIFICATION

INPUT

Rated value U_n	57.8 < 500V \pm 25%
Rated value I_n	C. T operated 1 or 5A amp direct connection 0.2 to 10A
Frequency	50 / 60 / 400Hz
Burden	< 3VA voltage < 0.5 VA current
Overload	1.5 x U_n 2 x I_n continuous 2x U_n 10 x I_n for 3 seconds

SETPOINT

Range	2% to 20% reverse current
Repeatability	Better than 0.5% of full span
Time delay	Adjustable 200ms to 20 sec
Hysteresis	1%

AUXILIARY

All units self powered

WEIGHT & CASE SIZE Approx. 0.6kg. 100mm case

SELECTION GUIDE

M200-RP1	Single phase or 3 phase 4 wire
M200-RP3	3 phase 3 wire

TYPICAL APPLICATIONS

The M200 reverse power relay is used to monitor the direction of power from AC generators. If the current in the system being monitored is reversed, to a value greater than the customer adjustable pre-set limit, the relay will energise.

The adjustable trip point is 2 to 20% of input current. An adjustable time delay of 0 to 20 seconds is provided. Correct setting of the trip point and time delay will ensure protection against motoring in the event of a generator failure and prevent tripping due to transients encountered during synchronising.

A red LED indicates the state of the relay and a green LED indicates the condition of the power supply

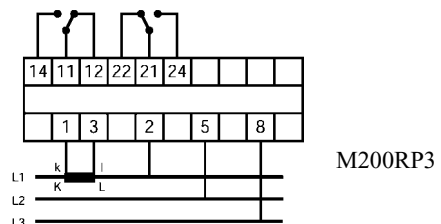
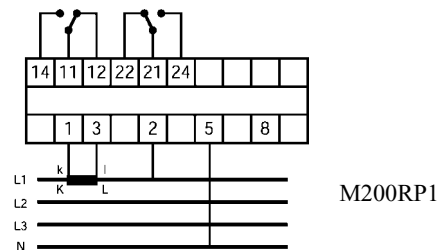
ORDERING INFORMATION

Product Code	I_n	Input U_n	Input Freq.
M200-RP3	1 Amp	400V	50Hz

OPTIONS

- Adjustable time delay max 30 seconds
- AC auxiliary in range 57.7 to 480 volts
- Calibration at nominal Hz 35 450Hz
- Calibration at temperature other than 23 C

CONNECTION DIAGRAMS



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/ ^o 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

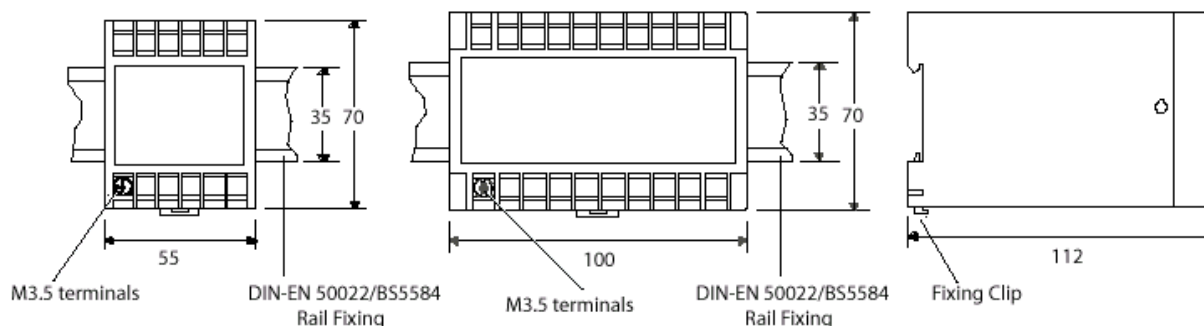
Fixing	Snap on to DIN rail 35 x7.5 mm complies with DIN-EN 50022 BS 5584
Mounting	Any position
Enclosure Code	Case IP 50/ terminals IP 30 Complies with IEC 529 BS 5490 DIN 40050
Material	Complying with UL 94 VO

APPROVALS

U.L. Approval File No E157034

CASE DIMENSIONS

All Dimensions in mm



Panel Components & Systems

