

3.2 Multifunction Monitoring

MRM32, MRM32R

Three phase multifunction monitoring | 12 ... 48 V UC | 110 ... 240 V UC

Power supply

Nominal voltage	12 ... 48 V UC	110 ... 240 V UC
Operating voltage range	10 ... 60 V	85 ... 250 V
Power consumption AC/DC	3.2 VA / 1.6 W	2.6 VA / 1.5 W
Rated frequency	16 ... 63 Hz	

Measuring circuit

Measured parameters	U, I, P, S, f, Cosφ, ΔPhi, phase sequence
Min. setting step, resolution	0.1 V / 0.1 A / 1 W / 1 VA / 0.1 Hz / 0.01 / 1°
Monitoring functions	Under, over, inside, outside, phase sequence, phase failure
Number of voltage measurement inputs	3
Rated AC voltage L-N / L-L	230 V / 400 V
AC voltage measurement range L-N / L-L	0.1 ... 480 V
Rated DC voltage U+-U-	300 V
DC voltage measurement range U+-U-	±0.1 ... 690 V
Undervoltage setting range	0.1 ... 480 V AC / ±0.1 ... 690 V DC
Overvoltage setting range	0.1 ... 480 V AC / ±0.1 ... 690 V DC
Number of current measurement inputs	3
Rated measurement current	5 A
Measurement current range	0.1 ... 6 A
Undercurrent setting range	0.1 ... 5 A
Overcurrent setting range	0.1 ... 5 A
Rated base frequency	15 ... 150 Hz
Alarm delay	0.5 ... 999.9 s
Alarm reset delay	0.5 ... 999.9 s

Main circuit

Number of contacts	2 CO
Contact Material	AgNi
Rated voltage	250 V
Rated current	6 A
Minimum load	10 mA, 10 V
Inrush current	10 A, 10 ms
Rated load DC	fig. 2
Rated load AC-1	1500 VA
Mechanical endurance (cycles)	3 x 10 ⁷
Electrical endurance at rated load AC-1 (cycles)	fig. 3

Insulation

Rated test voltage measuring / measuring circuit	1.5 kV rms / 1 min
Rated test voltage measuring circuit / power supply	2 kV rms / 1 min
Rated test voltage measuring circuit / main circuit	2 kV rms / 1 min
Rated test voltage main circuit / power supply	2 kV rms / 1 min
Rated test voltage main / main circuit	1.5 kV rms / 1 min
Rated test voltage open contact	1 kV rms / 1 min
Pollution degree	2
Overvoltage category	III

General data

Ambient temperature storage	-40 ... 85 °C
Ambient temperature operation	-40 ... 60 °C
Ambient temperature operation railway version	-40 ... 70 °C
Conductor cross section	2.5 mm ²
Nominal screw torque	0.6 Nm
Module width	fig. 4
Weight	125 g
Protection degree	IP 20
Housing material	PC

Product references

Types	Product reference	12-48	110-240
Three phase monitoring	MRM32/UC...V	✓	✓
Three phase monitoring, railway version	MRM32R/UC...V	✓	✓



fig. 1. Wiring diagram

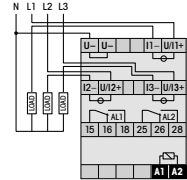


fig. 2. DC load limit curve

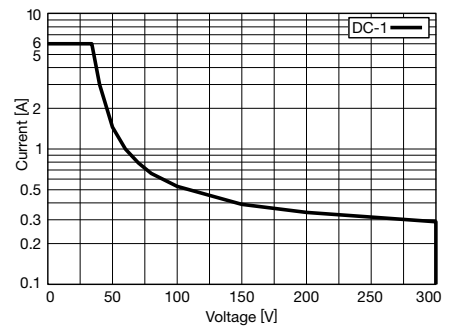


fig. 3. AC voltage endurance

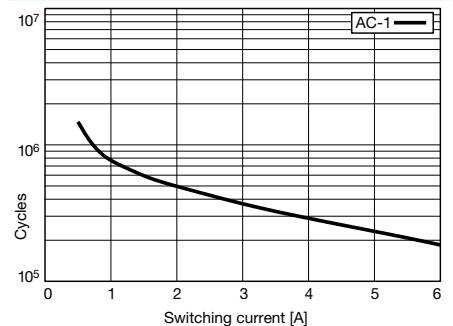
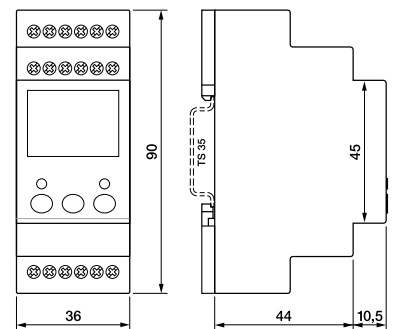


fig. 4. Dimensions (mm)



Standards and approvals

Standards IEC/EN 60947, IEC/EN 60730, IEC/EN 50155, IEC/EN 45545, IEC/EN 43880

Approvals

"..." list control circuit voltage to complete product references.

Other voltages on request. Please contact support@comatreleco.com.

Официальный дистрибьютор ComatReleco в России / ООО "ПОЛИГОН" / (812) 3254220 / www.poligon.info