MRI11

1 phase | 1 CO | current monitoring





12 ... 48 V UC Nominal voltage 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 16 ... 63 Hz

Measuring circuit

Measured parameters I, f Min. setting step, resolution 0.1 A / 1 Hz

Monitoring functions Under, over, inside, outside

Number of current measurement inputs 1 Rated measurement current 5 A $0.1\,\ldots\,5\,A$ Measurement current range $0.1\,\ldots\,6\,A$ Undercurrent setting range Overcurrent setting range $0.1\,\ldots\,6\,A$ 15 ... 150 Hz Rated base frequency 0.5 ... 999.9 s Alarm delay Alarm reset delay 0.5 ... 999.9 s



Number of contacts 1 CO Contact material AgNi Rated voltage 250 V AC Rated current 6 A 10 mA, 10 V Minimum load Inrush current 10 A, 10 ms fig. 2 Rated load DC 1250 VA Rated load AC-1 Mechanical endurance (cycles) 30 000 000 Electrical endurance at rated load AC-1 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 open contact 1.5 kV rms / 1 min Pollution degree 2 Ш Overvoltage category

General data

Ambient temperature storage (no ice) -40 ... 85 °C Ambient temperature operation -40 ... 60 °C Conductor cross section 2.5 mm^2 0.6 Nm Nominal screw torque Dimension fig. 4 Weight 107 g Protection degree IP 20 Housing material PC

Product reference

Description	Туре	12-48	110-240
Single phase monitoring	MRI11/UCV	✓	✓

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

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





fig. 1. Wiring diagram

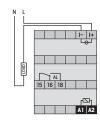


fig. 2. DC load limit curve

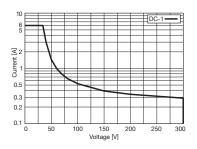


fig. 3. AC voltage endurance

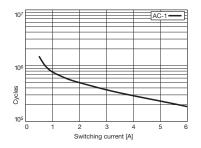
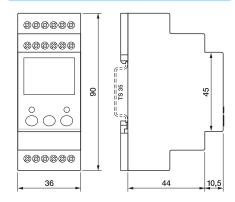


fig. 4. Dimension (mm)



Standards and approvals

EN 60947; EN 60730-1; EN 61000-6-3; Standards EN 61000-6-2

C € FAI c@us



	Description	MRM11	MRM11R	MRM32	MRM32R	MRU11	MRU32	MV53	SSU34	SSU31	SSU33L	MRI11	MRI32	TSR19	ESU-D2R	CT515R	CT524R
Monitoring	One phase voltage monitoring	•	•			•		•									
	Three phase voltage monitoring			•	•		•		•		•						
	Four channel voltage measuring																
	DC Voltage monitoring	•	•	•	•	•	•										•
	One phase current monitoring	•	•									•					
	Three phase current monitoring			•	•								•				
	Four channel current measuring																
	DC current monitoring	•	•	•	•							•	•			•	
	Phase failure			•	•		•		•	•	•						
	Phase sequence monitoring			•	•		•		•	•	•						
	Phase angle monitoring / measuring*			•	•		•		•		•						
	Differential voltage monitoring / measuring*								•		•						
	Neutral failure monitoring								•		•						
	Frequency monitoring / measuring*	•	•	•	•	•	•		•		•	•	•				
	Apparent power monitoring / measuring*	•	•	•	•												
	Active power monitoring / measuring*	•	•	•	•												
	Power factor monitoring / measuring*	•	•	•	•												
	Active energy measuring																
	THDI / THDU measuring																
	PTC monitoring													•			
	Earth failure monitoring														•		
Functions	Treshold "over" exceeded fig. 3.	•	•	•	•	•	•	•	•		•	•	•	•		•	•
	Theshold "under" exceeded fig. 4.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	"Inside" band entered fig. 2.	•	•	•	•	•	•					•	•			•	•
	"Outside" band entered fig. 1.	•	•	•	•	•	•					•	•			•	•
	Alarm on-delay	•	•	•	•	•	•	•	•		•	•	•		•	•	•
	Alarm off-delay	•	•	•	•	•	•	•				•	•				
	Latching alarm output function	•	•	•	•	•	•					•	•	•			
	Threshold selectable	•	•	•	•	•	•	•	•			•	•	•	•	•	•
	Threshold fixed									•	•			•			
Power supply	Supply isolated from measuring circuit	•	•	•	•	•	•					•	•	•	•		
	Supply from measure circuit							•	•	•	•					•	•
Mounting	DIN rail mounting	•	•	•	•	•	•	•	•			•	•		•		
	Housing according IEC/EN 43880 (electrical distribution mounting)	•	•	•	•	•	•	•				•	•				
	Plug-in (socket mounting)									•	•	•		•		•	•

