

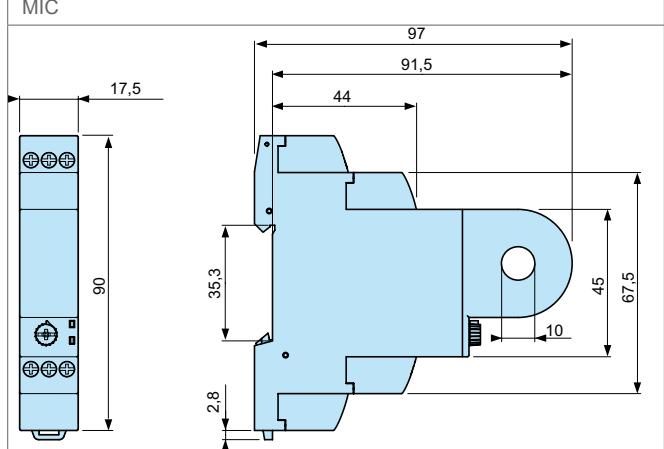
> MIC
 > Monitoring Relays
 > Current Monitoring Relays
 > DIN Rail Mount 17.5 mm

- > Control of AC currents
- > Built-in current transformer
- > Measurement ranges from 2 A to 20 A
- > Choice of output relay action
- > True RMS measurement



Specifications			
Functions	Measurement range	Nominal voltage (V)	Code
Overcurrent (or undercurrent)	2 → 20 A	24 → 240 V AC/DC	84871122
Power supply			
Supply voltage Un		24 V → 240 V AC/DC	
Voltage supply tolerance		-15 % / +10 %	
Operating range		20,4 V → 264 V AC/DC	
Polarity with DC voltage		•	
AC supply voltage frequency		50 / 60 Hz ± 10 %	
Galvanic isolation of power supply/measurement		•	
Power consumption at Un		3 VA in AC et 1 W in DC	
Immunity from micro power cuts		10 ms	
Inputs and measuring circuit			
Type		Built-in current transformer	
Measurement range		2 → 20 A	
Permanent overload at 25 °C		100 A	
Pulse overload < 3 s → 25 °C		300 A	
Frequency of measured signal		40 → 70 Hz sinusoidal	
Max. measuring cycle time		30 ms/True RMS measurement	
Threshold adjustment		10 → 100 % of the range	
Adjustable hysteresis		15 % (fixed) of displayed threshold	
Display precision		± 10 % of full scale	
Repetition accuracy with constant parameters		± 0,5 %	
Measuring error with voltage drift		< 1 %	
Measuring error with temperature drift		± 0,05 % / °C	
Time delays			
Reset time		200 ms	
Delay on pick-up		500 ms	

Outputs	
Type of output	1 single pole changeover relay
Type of contacts	No cadmium
Maximum breaking voltage	250 V AC/DC
Max. breaking current	5 A AC/DC
Min. breaking current	10 mA / 5 V DC
Electrical life (number of operations)	1×10^5
Breaking capacity (resistive)	1250 VA AC
Maximum rate	360 operations/hour at full load
Operating categories acc. to IEC/EN 60947-5-1	AC12, AC13, AC14, AC15, DC12, DC13, DC14
Mechanical life (operations)	30×10^6
Insulation	
Nominal insulation voltage IEC/EN 60664-1	400 V
Insulation coordination (IEC/EN 60664-1)	Overvoltage category III : degree of pollution 3
Rated impulse withstand voltage (IEC/EN 60664-1)	4 KV (1,2 / 50 μ s)
Dielectric strength (IEC/EN 60664-1)	2 KV AC 50 Hz 1 min.
Insulation resistance (IEC/EN 60664-1)	> 500 M Ω (s) @ 500 V DC
General characteristics	
Display power supply	Green LED
Display relay	Yellow LED
Casing	17,5 mm
Mounting	On 35 mm symmetrical DIN rail, IEC/EN 60715
Mounting position	All positions
Material : enclosure plastic type VO to UL94 standard	Incandescent wire test according to IEC 60695-2-11 & NF EN 60695-2-11
Protection (IEC/EN 60529)	Terminal block : IP20 Casing : IP30
Weight	110 g
Connecting capacity IEC/EN 60947-1	Rigid : 1 x 4 ² - 2 x 2,5 ² mm ² 1 x 11 AWG - 2 x 14 AWG Flexible with ferrules : 1 x 2,5 ² - 2 x 1,5 ² mm ² 1 x 14 AWG - 2 x 16 AWG
Max. tightening torques IEC/EN 60947-1	0,6 → 1Nm / 5,3 → 8,8 Lbf.In
Operating temperature IEC/EN 60068-2	-20 → +50 °C
Storage temperature IEC/EN 60068-2	-40 → +70 °C
Humidity IEC/EN 60068-2-30	2 x 24 hr cycle 95 % RH max. without condensation 55 °C
Vibrations according to IEC/EN60068-2-6	10 → 150 Hz, A = 0.035 mm
Shocks IEC/EN 60068-2-6	5 g
Standards	
Marking	CE (LVD) 73/23/EEC - EMC 89/336/EEC
Product standard	NF EN 60255-6 / IEC 60255-6 / UL 508 / CSA C22.2 N°14
Electromagnetic compatibility (EMC)	Immunity EN 61000-6-2/IEC 61000-6-2 Emission EN 61000-6-4/EN 61000-6-3 IEC 61000-6-4/IEC 61000-6-3 Emission EN 55022 class B
Certifications	UL, CSA, GL
Conformity with environmental directives	RoHS

Dimensions	
MIC	
Curves	
Connections	<p>MIC</p> 