

> EIH

> Monitoring Relays

> Current Monitoring Relays

> 24 VDC / 24 VAC / 48 VAC / 120 VAC / 220 VAC

- > Current transformer fitted by passing a cable through the front
- > AC current threshold adjustable from 1 to 20 A AC (30 Hz to 400 Hz) via button on front
- > Relay output 5 A - 250 V AC - 1 N/O contact
- > Multivoltage power supply : 100 to 230 V AC 50-60 Hz
- > 24 V AC / DC



Specifications		
Measurement range	Supply voltage	Code
0,1 →10 A	24 V DC	84871030
0,1 →10 A	24 V AC	84871031
0,1 →10 A	48 V AC	84871032
0,1 →10 A	120 V AC	84871033
0,1 →10 A	230 V AC	84871034

Supply	
Supply voltage Un	24 VDC / 24 VAC / 48 VAC / 120 VAC / 220 VAC
Voltage supply tolerance	-15 % / +15 % limited to -15 % / +10 % if products are mounted without space between them
Operating range	0.85 →1.15 Un
Power consumption at Un	3 VA AC 1 W DC
Immunity from micro power cuts	10 ms

Inputs and measuring circuit	
Frequency of measured signal	40 →500 Hz
Threshold adjustment	10 →100 % of the measurement range
Adjustable hysteresis	5 →50 % of the displayed threshold
Display precision	± 10 %
Repetition accuracy with constant parameters	± 0.1 %
Measuring error with voltage drift	± 0,1 % (± 10 % Un)
Measuring error with temperature drift	± 0,02 %

Timing	
Delays on power up (Ti)	0.1 s →20 s ± 10 %
Delay on threshold crossing Tt	0.1 s →3 s ± 10 %
Repetition accuracy with constant parameters	± 0.1 %
Reset time	500 ms
Delay on pick-up	500 ms

Output	
Type of output	1 changeover AgNi, 8A AC max
Type of contacts	No cadmium
Maximum breaking voltage	250 V AC/DC
Max. breaking current	8 AAC max.
Min. breaking current	100 mA AC/DC
Electrical life (number of operations)	AC 12 : 2000 VA - 10□ AC 15 : Cos φ = 0,3 - 6000 DC 13 : L/R = 300 ms - 6000
Breaking capacity (V resistive)	2000 VA AC
Maximum rate	360 operations/hour at full load
Operating categories acc. to IEC/EN 60947-5-1	AC12, AC15, DC13
Mechanical life (operations)	5 x 10□
Insulation	
Insulation coordination (IEC/EN 60664-1)	Overvoltage category III : degree of pollution 2
Rated impulse withstand voltage (IEC/EN 60664-1)	4 kV (1,2 / 50 μs)
Dielectric strength (IEC/EN 60664-1)	2,5 kV AC 50 Hz 1 min.
Insulation resistance (IEC/EN 60664-1)	> 100 MOhm(s) / 500 VDC
General characteristics	
Display power supply	Green LED
Display relay	Yellow LED
Casing	22,5 mm
Mounting	On 35 mm symmetrical DIN rail, IEC/EN 60715
Mounting position	All positions
Material : enclosure plastic type VO to UL94 standard	Enclosure plastic type VO to UL94 standard
Protection (IEC/EN 60529)	Terminal block : IP 20 Casing : IP 50
Weight	140 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 mN / 5,3 Lbf.In
Operating temperature IEC/EN 60068-2	-20 → +50
Storage temperature IEC/EN 60068-2	-30 → +70
Humidity IEC/EN 60068-2-30	93 % RH max. without condensation
Vibrations according to IEC/EN60068-2-6	10 → 55 Hz, A = 0,35 mm
Standards	
Product standard	IEC/EN 60255-1
Electromagnetic compatibility (EMC)	IEC/EN 61000-6-1, IEC/EN 61000-6-1, IEC/EN 61000-6-3, IEC/EN 61000-6-4
Certifications	UL, CSA
Marking	CE (DBT) 2006/95/EC - EMC 2004/108/EC
Conformity with environmental directives	RoHS

Dimensions

EIL / EIH / EIT

Curves

Connections

EIL / EIH

Technical drawing of the relay front panel showing terminals A1, 11, M, E1, E2, E3, 14, 12, and A2. It includes two potentiometers for T1 and T2, a hysteresis control, and a 44µF capacitor. The drawing also shows the internal relay schematic and a barcode with the number 00000 yyww.

Technical drawing of the relay internal components showing the relay coil and contact R, with terminal numbers 11, 12, 14, and M. It also includes a 44µF capacitor and a 1N4007 diode.

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