



Identification	Type	LCR-I-1-10-1U-24-240
	Part-No.	750630
Description	Current monitoring 1-phase, AC-DC 10 A	
Time range		
Switch-on delay	300 ms	
Switch-off delay	0.1 – 10 s, adjustable	
Status indication		
Supply status	LED green	
Output relay status	LED yellow	
Status under/over-current	LED red	
Trigger delay status	LED red flashing	
Housing		
Dimensions (w × h × d)	22.5 × 67.0 × 76.0 mm	
Colour of the housing	light grey	
Housing material	PA 6.6 V0	
Protection class	IP20	
Connection device	Screwed terminal	
Connection cross-section	AWG 20 – AWG 13	

25.08.2017 – Subject to technical modification

Part-No. 750630

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Connection cross-section	0.5 – 2.5 mm ² with AE
Installation position	any
Weight	0.070 kg/piece
Approvals	cULus

Supply circuit

Rated voltage range	AC 110 V/DC 24 V – AC/DC 240 V
Tolerance	AC: -15 %/+15 %, DC: -30 %/+30 %
Rated frequency	16,6 – 400 Hz
Power consumption	0.25 W/0.25 VA @ 24 V, 0.37 W/1.3 VA @ 230 V
Operating time	100 % ED
Bridging time	<140 ms
Recovery time	>200 ms
Voltage drop	≥6 V

Output circuit

Number of channels	1
Switching element	Relays
Contact type	Change over contact
Measurement voltage	AC 250 V (IEC 60947-1)
Switching voltage	AC 400 V
Switching current max.	AC-1: 8A/250V, AC-15: 1.5A/240V(B300), DC-12: 8A/24V, DC-13: 0.1A/250V
Protection device	8 A, quick-acting
Mechanical service life	30 × 10 ⁶ (1000 VA)
Electrical service life	1 × 10 ⁵ (1000 VA) (AC-1)
Switching frequency	6/min with load

Accuracy

Basic accuracy	≤2.5 % (end of scale)
Tolerance of setting	≤5 % (end of scale)
Repeat accuracy	≤1 %
Temperature error	≤0.05 %/°C

Measuring circuit

Measuring variable	Current 1-phase
Measuring range	AC/DC 10 A
Measuring procedure	Real effective value
Monitored functions	Under-current, over-current, under/over-current
Overload capability	Permanent load: 15 A, Impulse load <1 s: 50 A, Impulse load <100 ms: 150 A
Input resistance	2 mΩ
Switching threshold min.	5 % – 95 %
Switching threshold max.	10 % – 100 %

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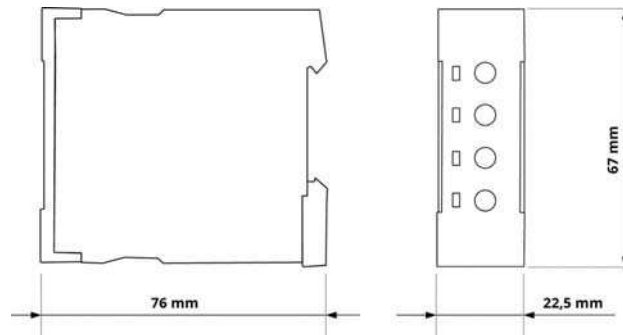
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Hysteresis 1 %

Environmental conditions

Temperature range -25 °C ... +60 °C
Storage temperature range -40 °C ... +70 °C
Relative air humidity 5 % to 95 % acc. IEC 60721-3-3 Class 3K3
Vibration resistance 2 – 13.2 Hz 1 mm 13.2 – 100 Hz 7 m/s²
Impact resistance 15 g 11 ms acc. IEC 60068-2-27

Dimensions



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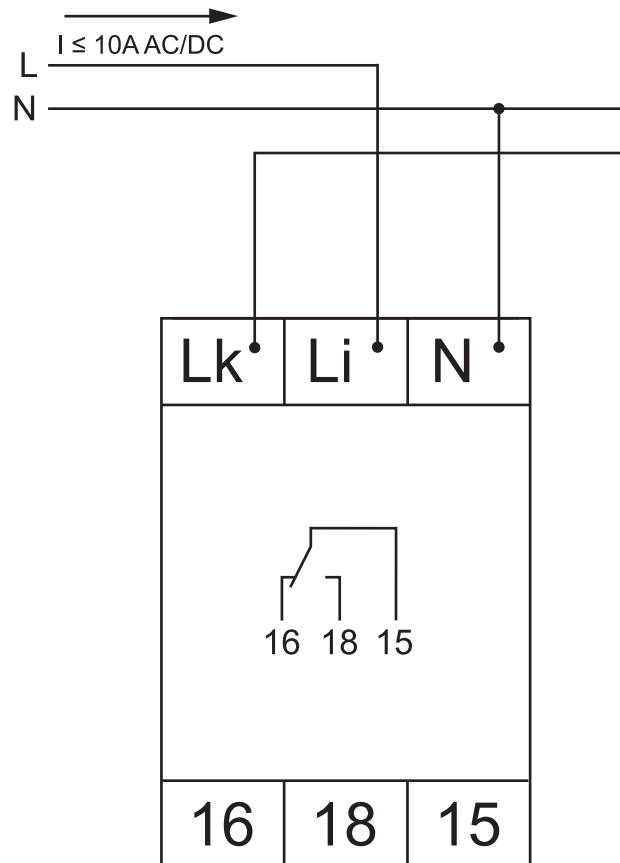
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PIN assignment



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