Product datasheet

Specifications

current controler

RM84871034

Discontinued on: 1 Nov 2020

EAN Code: 3389110285154

Discontinued

Main

Range of product	Zelio Control
Relay type	Current measurement relay
Product or component type	Industrial measurement and control relays
Relay name	RM84871
Relay monitored parameters	Overcurrent or undercurrent detection
Time delay type	Adjustable 0.1...3 s, +/- 10 % on crossing the threshold Tt Adjustable 1...20 s, +/- 10 % on energisation Ti
Minimum switching current	100 mA at 12 V DC
Measurement range	0.1...10 A current AC
Contacts type and composition	1 C/O

Complementary

Maximum switching voltage	250 V AC
operating voltage tolerance	0.8...1.15 Un
Output contacts	1 C/O
nominal output current	8 A
Internal input resistance	0.01 kOhm 0.1 kOhm 0.2 kOhm
Setting accuracy of the switching threshold	+/- 10 %
Hysteresis	5…50 % adjustable of threshold setting
Threshold setting	10...100 %
Connections - terminals	Screw terminals, 2 x 1.5 mm² (AWG 16) flexible with cable end Screw terminals, 2 x 2.5 mm² (AWG 14) flexible without cable end Screw terminals, 1 x 4 mm² (AWG 12) flexible without cable end
Tightening torque	1 N.m
Housing material	Polycarbonate
Electrical durability	100000 cycles
Mechanical durability	20000000 cycles
Net weight	0.15 kg

Environment

Electromagnetic compatibility	Electrostatic discharge - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2
Ambient air temperature for storage	-40…70 °C
Ambient air temperature for operation	-20…50 °C
Relative humidity	95 % without condensation
Vibration resistance	0.035 mm conforming to IEC 60068-2-6
IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP40D (enclosure) conforming to IEC 60529
Dielectric test voltage	2.5 kV, 1 min AC 50 Hz conforming to IEC 60255-5
Non-dissipating shock wave	2 kV conforming to IEC 61000-4-5
Resistance to electrostatic discharge	6 kV contact conforming to IEC 61000-4-2 level 3 8 kV air conforming to IEC 61000-4-2 level 3
Resistance to electromagnetic fields	10 V/m conforming to IEC 61000-4-3 level 3
Resistance to fast transients	2 kV conforming to IEC 61000-4-4 level 3
Protection against electric shocks	2 kV: level 3 conforming to IEC 61000-4-5
Disturbance radiated/conducted	Class B

Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

Use Longer

Lifetime extension

Repair	No