Product datasheet

Specifications



Modular current control relay, 8 A, 1 CO, overcurrent function, 250 V AC/ DC

Local distributor code:

389834764 RM17JC00MW

EAN Code: 3389119405034

Main

Range of product	Harmony Control Relays
Relay type	Current control relay
Product or component type	Current control relay
Relay name	RM17JC
Relay monitored parameters	Overcurrent detection
Control type	Without test button
Contacts type and composition	1 C/O

Complementary

[Us] rated supply voltage	24...240 V AC/DC 50/60 Hz, non self-powered
Supply voltage limits	20.4…264 V AC/DC
Maximum power consumption in VA	3 VA
Maximum power consumption in W	1 W
Measurement range	2...20 A AC
Maximum measuring cycle	30 ms measurement cycle as true rms value
Hysteresis	15 % fixed of threshold setting
Repeat accuracy	+/- 0.5 % for input and measurement circuit
Measurement error	+/- 0.05 %/°C with temperature variation < 1 % over the whole range with voltage variation
Time delay type	Without
Response time	< 200 ms (in the event of a fault)
Power on Delay	600 ms
Output contacts	1 C/O
nominal output current	5 A
Maximum switching voltage	250 V AC/DC
Switching capacity in VA	1250 VA
Minimum switching current	10 mA at 5 V DC
Electrical durability	100000 cycles
Mechanical durability	30000000 cycles
operating voltage tolerance	- 15 % + 10 % Un
Control circuit frequency	40...70 Hz sinusoidal
Measurement accuracy	+/- 10 % of the full scale value

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Polarity	Yes DC
Threshold setting	10...100 %
Input current	100000 mA permanent at 25 °C 300000 mA non repetitive < 3 s at 25 °C
Insulation	Between supply and measurement
Contacts material	Cadmium free

Environment

Electromagnetic compatibility	Emission standard for industrial environments conforming to IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to IEC 61000-6-3 Immunity for industrial environments conforming to NF EN/IEC 61000-6-2
Standards	IEC 60255-6
Product certifications	GL C-Tick GOST UL CSA
Marking	CE : 73/23/EEC CE : EMC 89/336/EEC
Ambient air temperature for storage	-40…70 °C -40…70 °C
Ambient air temperature for operation	-20…50 °C
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30
IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP30 (casing) conforming to IEC 60529
Pollution degree	3 conforming to IEC 60664-1
Overvoltage category	III conforming to IEC 60664-1
Dielectric test voltage	2 kV AC 50 Hz
Insulation resistance	> 500 MOhm at 500 V DC conforming to IEC 60255-5
[Ui] rated insulation voltage	400 V conforming to IEC 60664-1
Operating position	Any position without derating
Connections - terminals	Screw terminals, 1 x 0.5...1 x 4 mm² (20 AWG...11 AWG) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm² (20 AWG...14 AWG) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm² (24 AWG...12 AWG) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm² (24 AWG...16 AWG) flexible with cable end
Tightening torque	0.6…1 N.m conforming to IEC 60947-1
Housing material	Polycarbonate
Local signalling	LED (green) for power ON LED (yellow) for relay ON
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715
Height	90 mm 88.9 mm
Width	17.5 mm 17.8 mm
Depth	72 mm 71.1 mm
Net weight	0.11 kg 0.11 kg

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.800 cm
Package 1 Width	9.700 cm
Package 1 Length	10.400 cm
Package 1 Weight	117.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	32
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.200 kg

Logistical informations

Country of origin	ID

Contractual warranty

Warranty (in months)	18

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 >

Environmental footprint

Total lifecycle Carbon footprint	**38 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**3 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.3 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**35 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.3 kg CO2 eq.**
Environmental Disclosure	**Product Environmental Profile**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**Yes**
SCIP Number	**5e3fdf99-611b-4d07-ad17-6eba84ab488b**
EU RoHS Directive	**Compliant By Exemption**
REACh Regulation	**Reference contains Substances of Very High Concern above the threshold**

Use Again

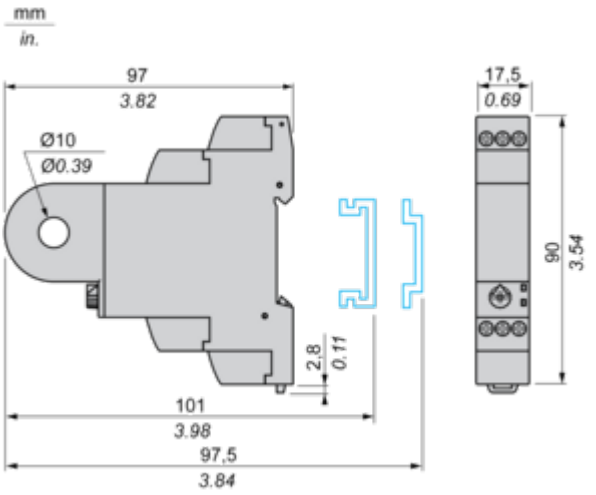
Repack and remanufacture

Recyclability potential, in %	**0**
End of life manual availability	**End of Life Information**
Take-back	**No**

Dimensions Drawings

Current Control Relays

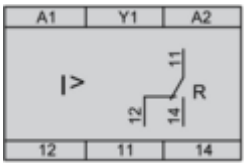
Dimensions and Mounting



Connections and Schema

Current Control Relays

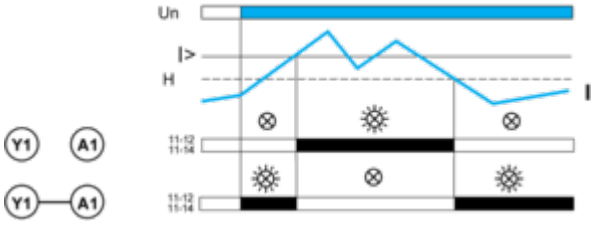
Wiring Diagram



Technical Description

Function Diagram

Control of Overcurrent



Legend

Un Supply voltage
I Monitored current
H Hysteresis
I> Overcurrent threshold (set by means of a potentiometer)
11-12/11-14, 21-22/21-24 Output relay connections (refer to Connections and Schema)
Relay status: black color = energized.

NOTE: When terminal Y1 is linked to A1 (+), the output is reversed.

Image of product in real life situation

