Product datasheet

Specifications



voltage control relay RM17-U - range 20..80 V AC

Local distributor code:

389834829 RM17UAS16

EAN Code: 3389119405119

Main

Range of product	Harmony Control Relays
Relay type	Voltage control relay
Product or component type	Voltage control relay
Relay name	RM17UAS
Relay monitored parameters	Overvoltage or undervoltage detection
Control type	Without test button
Contacts type and composition	1 C/O
Product specific application	For single-phase and DC supply

Complementary

[Us] rated supply voltage	, self-powered
Supply voltage limits	15…100 V AC/DC
Power consumption in VA	0…3.9 VA AC
Measurement range	20...80 V AC/DC
Maximum measuring cycle	150 ms measurement cycle as true rms value
Hysteresis	5…20 % of threshold setting
Repeat accuracy	+/- 0.5 % for input and measurement circuit +/- 1 % for time delay
Time delay type	Adjustable 0.1...10 s, 0 + 10 % Tt- time delay upon fault
Setting accuracy of time delay	10 %
Reset time	1500 ms time delay
Power on delay	1000 ms DC 500 ms AC
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
Maximum switching current	5 A AC/DC
Electrical durability	100000 cycles
Mechanical durability	30000000 cycles
Maximum power consumption in W	1.6 W DC

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

Control circuit frequency	50...60 Hz +/- 10 %
Measurement accuracy	+/- 10 % of the full scale value
Polarity	Non reversible polarity on DC supply
Quality labels	CE

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	CSA GL UL GOST C-Tick
Directives	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility
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, 1 min AC 50 Hz conforming to IEC 60255-5
Insulation resistance	> 500 MOhm at 500 V DC conforming to IEC 60255-5
[Ui] rated insulation voltage	250 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...2 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	0.09 kg 0.09 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	7.900 cm
Package 1 Length	9.600 cm
Package 1 Weight	83.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	48
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.664 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	**30 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**2 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.2 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**28 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**0.2 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

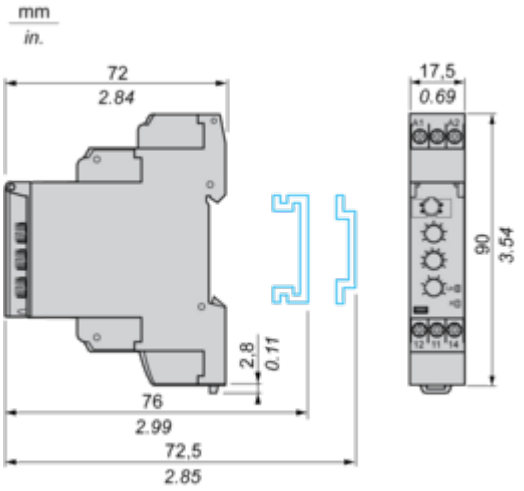
Repack and remanufacture

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

Dimensions Drawings

Single-Phase and DC Voltage Control Relays

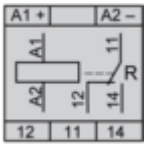
Dimensions and Mounting



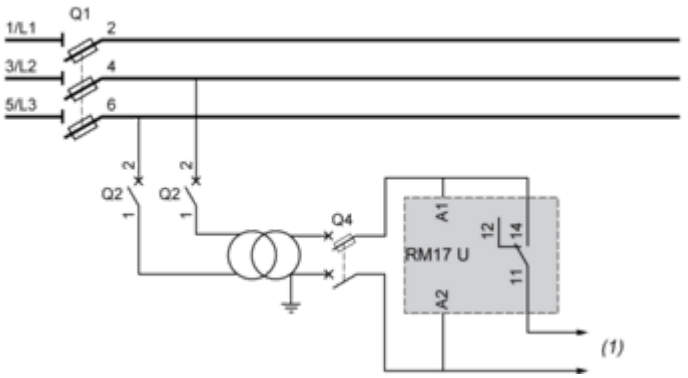
Connections and Schema

Single-Phase and DC Voltage Control Relays

Wiring Diagram



Application Scheme



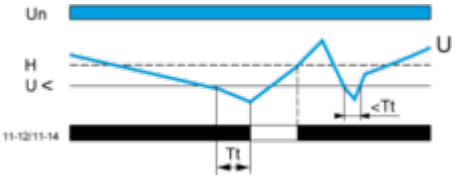
(1) To sensitive loads

Technical Description

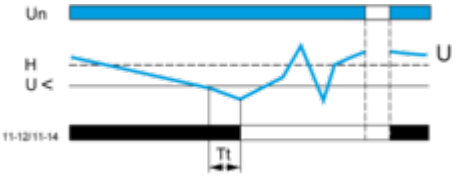
Function Diagrams

Undervoltage Control

Without memory ("No Memory" mode)

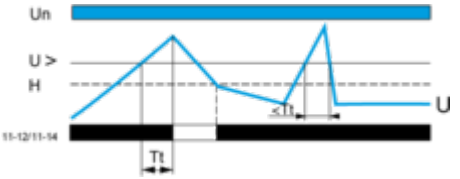


With memory ("Memory" mode)

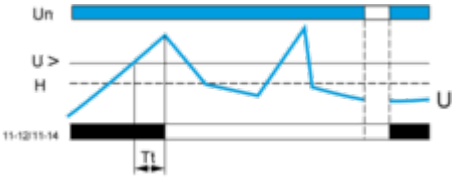


Overvoltage Control

Without memory ("No Memory" mode)



With memory ("Memory" mode)



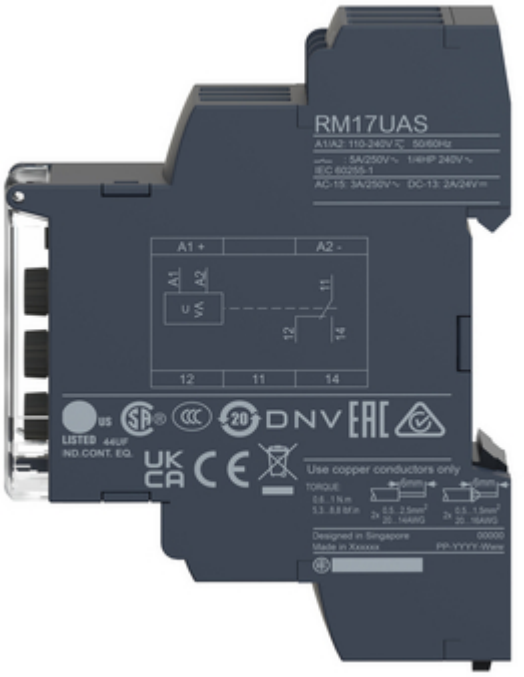
Legend

Tt Time delay after crossing of threshold
Un Nominal supply voltage
U Monitored supply voltage
H Hysteresis
U> Overvoltage threshold
U< Undervoltage threshold
11-12, 11-14 Output relay connections (refer to Connections and Schema)
Relay status: black color = energized.

NOTE: In "Memory" mode, the relay opens when crossing of the threshold is detected and then stays in that position. The power supply voltage must be switched off to reset the product.

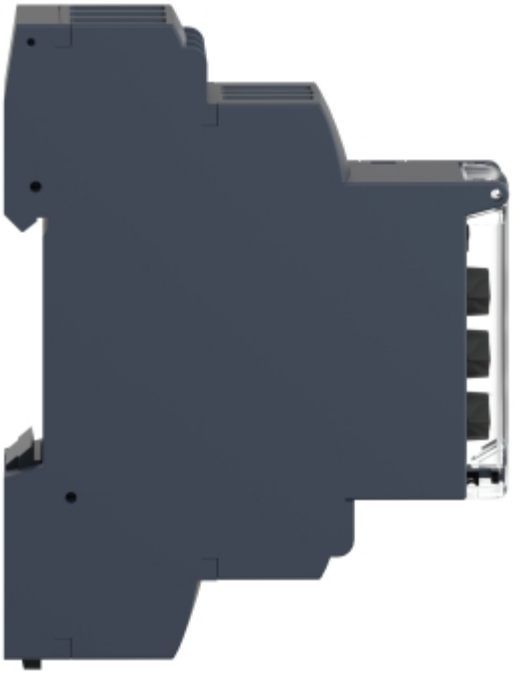
Image of product / Alternate images

Alternative






12
11
14




A1+
A2-
12
11
14



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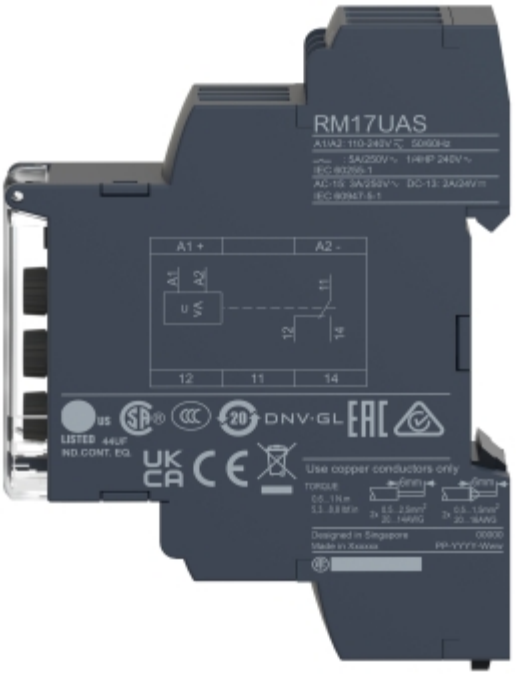


Image of product in real life situation

