



Modular 1 phaseVoltage control relay, Harmony, 5A, 1CO, 9...15V DC

RM17UAS14

Main

Range of product	Harmony Control Relays
Product or component type	Voltage control relay
Relay type	Voltage control relay
Product specific application	For single-phase and DC supply
Relay name	RM17UAS
Relay monitored parameters	Overvoltage or undervoltage detection Self-powered
Time delay	Adjustable 0.110 s, 0 + 10 % on crossing the threshold
Switching capacity in VA	1250 VA
Minimum switching current	10 mA at 5 V DC
Maximum switching current	5 A AC/DC
Measurement range	915 V voltage DC
Utilisation category	AC-12 conforming to IEC 60947-5-1 AC-13 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1 DC-12 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1 DC-14 conforming to IEC 60947-5-1
Contacts type and composition	1 C/O

Complementary

Reset time	1500 ms time delay
Maximum switching voltage	250 V AC/DC
[Us] rated supply voltage	12 V DC +/- 10 %
Supply voltage limits	720 V DC
Maximum power consumption in W	1 W DC
Immunity to microbreaks	20 ms at 12 V
Output contacts	1 C/O
Nominal output current	5 A
Hysteresis	520 % of threshold setting
Delay at power up	1000 ms DC

Measurement accuracy		
Repeat accuracy	+/- 0.5 % for input and measurement circuit +/- 1 % for time delay	
Measurement error	< 1 % over the whole range with voltage variation 0.2 %/°C with temperature variation	
Polarity	Non reversible polarity on DC supply	
Quality labels	CE	
Overvoltage category	III conforming to IEC 60664-1	
Insulation resistance	> 500 MOhm at 500 V DC conforming to IEC 60255-5 > 500 MOhm at 500 V DC conforming to IEC 60664-1	
[Ui] rated insulation voltage	250 V conforming to IEC 60664-1 400 V conforming to IEC 60664-1	
Operating position	Any position without derating	
Connections - terminals	Screw terminals, 1 x 0.51 x 4 mm² (AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.22 x 2.5 mm² (AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end	
Tightening torque	0.61 N.m conforming to IEC 60947-1	
Housing material	Self-extinguishing plastic	
Local signalling	LED (green) for power ON LED (yellow) for relay ON	
Mounting support	35 mm symmetrical DIN rail conforming to EN/IEC 60715	
Electrical durability	100000 cycles	
Mechanical durability	30000000 cycles	
Operating rate	<= 360 operations/hour full load	
Width	17.5 mm	
Net weight	0.08 kg	
Compatibility code	RM17	
Environment		
Electromagnetic compatibility	Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Immunity for industrial environments conforming to NF EN/IEC 61000-6-2	
Standards	EN/IEC 60255-6	
	2.4.20 00200 0	
Product certifications	CSA	
Product certifications	CSA C-Tick GL	
Product certifications	CSA C-Tick	
Product certifications Directives	CSA C-Tick GL UL	
-	CSA C-Tick GL UL GOST 73/23/EEC - low voltage directive	
Directives Ambient air temperature for	CSA C-Tick GL UL GOST 73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility	
Directives Ambient air temperature for storage Ambient air temperature for	CSA C-Tick GL UL GOST 73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility -4070 °C	
Directives Ambient air temperature for storage Ambient air temperature for operation	CSA C-Tick GL UL GOST 73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility -4070 °C	
Directives Ambient air temperature for storage Ambient air temperature for operation Relative humidity	CSA C-Tick GL UL GOST 73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility -4070 °C -2050 °C 95 % at 55 °C conforming to IEC 60068-2-30 0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6	
Directives Ambient air temperature for storage Ambient air temperature for operation Relative humidity Vibration resistance	CSA C-Tick GL UL GOST 73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility -4070 °C -2050 °C 95 % at 55 °C conforming to IEC 60068-2-30 0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6 1 gn (f= 57.6150 Hz) conforming to IEC 60255-21-1	
Directives Ambient air temperature for storage Ambient air temperature for operation Relative humidity Vibration resistance Shock resistance	CSA C-Tick GL UL GOST 73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility -4070 °C -2050 °C 95 % at 55 °C conforming to IEC 60068-2-30 0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6 1 gn (f= 57.6150 Hz) conforming to IEC 60255-21-1 5 gn conforming to IEC 60068-2-27 IP20 (terminals) conforming to IEC 60529	
Directives Ambient air temperature for storage Ambient air temperature for operation Relative humidity Vibration resistance Shock resistance IP degree of protection	CSA C-Tick GL UL GOST 73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility -4070 °C -2050 °C 95 % at 55 °C conforming to IEC 60068-2-30 0.35 mm (f= 557.6 Hz) conforming to IEC 60068-2-6 1 gn (f= 57.6150 Hz) conforming to IEC 60255-21-1 5 gn conforming to IEC 60068-2-27 IP20 (terminals) conforming to IEC 60529 IP30 (casing) conforming to IEC 60529	

+/- 10 % of the full scale value

Measurement accuracy

Non-dissipating shock wave	4 kV conforming to IEC 60255-5	
	4 kV conforming to IEC 60664-1	
	4 kV conforming to IEC 61000-4-5	

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.600 cm
Package 1 Width	8.000 cm
Package 1 Length	9.600 cm
Package 1 Weight	85.900 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	4.492 kg

Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
China RoHS Regulation	China RoHS declaration	
RoHS exemption information	Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins	
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	

Contractual warranty

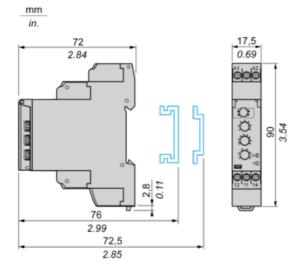
Warranty 18 months	
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RM17UAS14

Dimensions Drawings

Single-Phase and DC Voltage Control Relays

Dimensions and Mounting



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Connections and Schema

Single-Phase and DC Voltage Control Relays

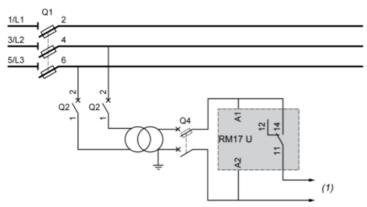
Wiring Diagram



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Connections and Schema

Application Scheme



(1) To sensitive loads

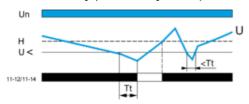
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Technical Description

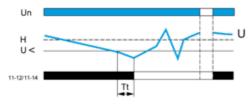
Function Diagrams

Undervoltage Control

Without memory ("No Memory" mode)

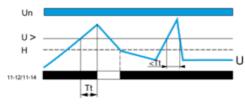


With memory ("Memory" mode)

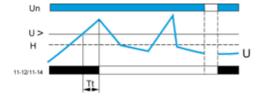


Overvoltage Control

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.

Recommended replacement(s)