



# Harmony, Modular 1-phase voltage control relay, 5 A, 1 CO, 65...260 V AC/DC

RM17UAS15

#### 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
Power consumption in VA	03 VA AC
Measurement range	65260 V voltage AC 50/60 Hz 65260 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	110240 V AC/DC 50/60 Hz +/- 10 %
Supply voltage limits	50270 V AC/DC
Maximum power consumption in W	1 W DC
Immunity to microbreaks	20 ms
Control circuit frequency	5060 Hz +/- 10 %
Output contacts	1 C/O
Nominal output current	5 A

Maximum measuring cycle	150 ms measurement cycle as true rms value
Hysteresis	520 % of threshold setting
Delay at power up	1000 ms DC 500 ms AC
Measurement accuracy	+/- 10 % of the full scale value
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	
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
	Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3
Electromagnetic compatibility	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
Electromagnetic compatibility  Standards	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  EN/IEC 60255-6  GL UL GOST CSA
Electromagnetic compatibility  Standards  Product certifications	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  EN/IEC 60255-6  GL UL GOST CSA C-Tick  89/336/EEC - electromagnetic compatibility
Electromagnetic compatibility  Standards  Product certifications  Directives  Ambient air temperature for	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  EN/IEC 60255-6  GL UL GOST CSA C-Tick  89/336/EEC - electromagnetic compatibility 73/23/EEC - low voltage directive
Electromagnetic compatibility  Standards  Product certifications  Directives  Ambient air temperature for storage  Ambient air temperature for	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  EN/IEC 60255-6  GL UL GOST CSA C-Tick  89/336/EEC - electromagnetic compatibility 73/23/EEC - low voltage directive  -4070 °C
Standards Product certifications  Directives  Ambient air temperature for storage  Ambient air temperature for operation	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  EN/IEC 60255-6  GL UL GOST CSA C-Tick  89/336/EEC - electromagnetic compatibility 73/23/EEC - low voltage directive  -4070 °C  -2050 °C

Pollution degree  Dielectric test voltage  Non-dissipating shock wave	IP30 (casing) conforming to IEC 60529  3 conforming to IEC 60664-1  2 kV, 1 min AC 50 Hz conforming to IEC 60255-5
Dielectric test voltage	·
Von-dissinating shock wave	2 kV, 1 min AC 50 Hz conforming to IEC 60255-5 2 kV, 1 min AC 50 Hz conforming to IEC 60664-1
ton-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	2.6 cm
Package 1 Width	8.0 cm
Package 1 Length	9.4 cm
Package 1 Weight	90.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	48
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.809 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

18 months

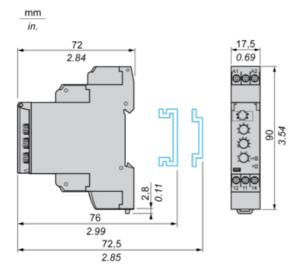
Warranty

# **RM17UAS15**

**Dimensions Drawings** 

## Single-Phase and DC Voltage Control Relays

## **Dimensions and Mounting**



# **RM17UAS15**

Connections and Schema

## Single-Phase and DC Voltage Control Relays

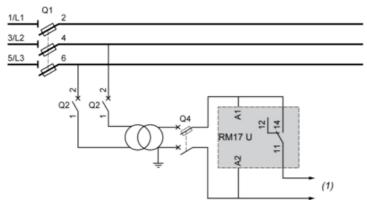
## Wiring Diagram



# **RM17UAS15**

Connections and Schema

## **Application Scheme**



(1) To sensitive loads

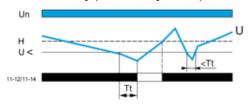
## **RM17UAS15**

**Technical Description** 

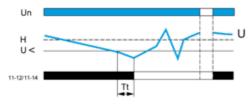
### **Function Diagrams**

#### **Undervoltage Control**

Without memory ("No Memory" mode)

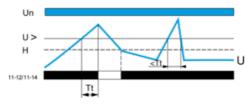


#### With memory ("Memory" mode)

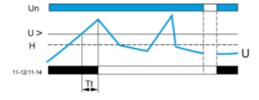


## **Overvoltage Control**

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)