

voltage control relay, Harmony Control Relays, 5A, 2CO, range 15..600V, 24..240V AC DC

RM35UA13MW

Main

Range of product	Harmony Control Relays	
Relay type	Multifunction voltage control relay	
Product or component type	Voltage control relay	
Relay name	RM35UA	
Relay monitored parameters	Overvoltage or undervoltage detection	
time delay	Adjustable 0.330 s, 0 + 10 % Tt- time delay upon fault	
Switching capacity in VA	1250 VA	
Measurement range	15600 V AC/DC	
Contacts type and composition	2 C/O	

Complementary

Reset time	1500 ms time delay	
Maximum switching voltage	250 V AC/DC	
Minimum switching current	10 mA at 5 V DC	
Maximum switching current	5 A AC/DC	
operating voltage tolerance	- 15 % + 10 % Un	
Supply voltage limits	20.4264 V AC/DC	
Power consumption in VA	03.5 VA AC	
Maximum power consumption in W	0.6 W DC	
Control circuit frequency	4070 Hz +/- 10 %	
Immunity to microbreaks	10 ms	
Resistance across terminals	150 mOhm at E1-M terminals 300 mOhm at E2-M terminals 600 mOhm at E3-M terminals	
Output contacts	2 C/O	
nominal output current	5 A	
Hysteresis	550 % of threshold setting	
Measurement accuracy	+/- 10 % of the full scale value	
Polarity	Non reversible polarity on DC supply	
delay at power up	600 ms	
Maximum measuring cycle	30 ms measurement cycle as true rms value	

Repeat accuracy +/- 0.5 % for input and measurement circuit +/- 2 % for time delay Measurement error +/- 0.05 %/°C with temperature variation < 1 % over the whole range with voltage variation Sensitivity scale 15150 V E1-M terminals 30300 V E2-M terminals			
Sensitivity scale 1 % over the whole range with voltage variation Sensitivity scale 15150 V E1-M terminals			
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60600 V E3-M terminals	30300 V E2-M terminals		
Threshold setting 10100 %			
Quality labels CE	CE		
Insulation resistance > 500 MOhm at 500 V DC between supply and rel. 60255-5 > 500 MOhm at 500 V DC between measurement 60664-1			
> 1 MOhm at 500 V DC between supply and meas 60255-5 > 500 MOhm at 500 V DC between supply and rel. 60664-1			
> 500 MOhm at 500 V DC between measurement 60255-5 > 1 MOhm at 500 V DC between supply and meas			
60664-1			
Operating position Any position without derating			
LeD (green) for power ON LED (yellow) for relay ON			
Overvoltage category III conforming to IEC 60664-1			
[Ui] rated insulation voltage 250 V conforming to IEC 60664-1 600 V conforming to IEC 60664-1			
Screw terminals, $2 \times 0.52 \times 2.5$ mm² (AWG $20t$ Screw terminals, $1 \times 0.22 \times 2.5$ mm² (AWG $24t$	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			
Mounting support 35 mm symmetrical DIN rail conforming to IEC 607	715		
Electrical durability 100000 cycles			
Electrical durability 100000 cycles Mechanical durability 30000000 cycles			
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Mechanical durability 30000000 cycles			
Mechanical durability 30000000 cycles Operating rate <= 360 operations/hour full load			
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Mechanical durability 30000000 cycles			
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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

Ambient air temperature for operation	-2050 °C 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	
Vibration resistance		
Shock resistance	5 gn conforming to IEC 60068-2-27	
Standards	IEC 60255-6	
Product certifications	GOST UL GL C-Tick CSA	
Ambient air temperature for storage	-4070 °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	
Directives	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility	
Dielectric test voltage	2 kV, 1 min AC 50 Hz conforming to IEC 60255-5 2 kV, 1 min AC 50 Hz conforming to IEC 60664-1	
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	4.5 cm
Package 1 Width	7.8 cm
Package 1 Length	9.6 cm
Package 1 Weight	136.0 g
Unit Type of Package 2	S03
Number of Units in Package 2	48
Package 2 Height	30.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	7.271 kg

Contractual warranty

Warranty 18 months



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	64	

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	5e3fdf99-611b-4d07-ad17-6eba84ab488b
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

Use Again

○ Repack and remanufacture		
Take-back	No	

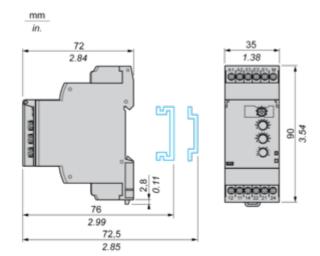
Product data sheet

RM35UA13MW

Dimensions Drawings

Multifunction Voltage Control Relays

Dimensions and Mounting



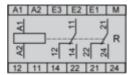
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Connections and Schema

Multifunction Voltage Control Relays

Wiring Diagram



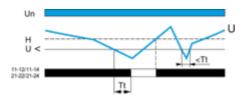
RM35UA13MW

Technical Description

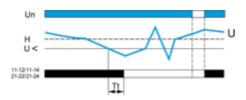
Function Diagrams

Undervoltage Control

Without memory ("No Memory" mode)

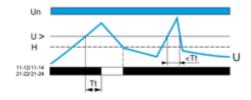


With memory ("Memory" mode)

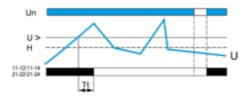


Overvoltage Control

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

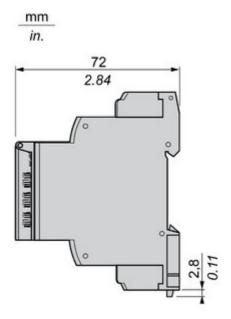
11-12/11-14, 21-22/21-24 Output relay connections

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.

Technical Illustration

Dimensions



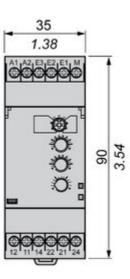


Image of product / Alternate images

Alternative





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