RM35UA13MW

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





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

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 60600 V E3-M terminals	
Threshold setting	10100 %	
Quality labels	CE	

Insulation resistance	> 500 MOhm at 500 V DC between supply and relay output conforming to IEC 60255-5 > 500 MOhm at 500 V DC between measurement and relay output conforming to IEC 60664-1
	> 1 MOhm at 500 V DC between supply and measurement conforming to IEC 60255-5
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Operating position	Any position without derating
Local signalling	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
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
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715
Electrical durability	100000 cycles
Mechanical durability	30000000 cycles
Operating rate	<= 360 operations/hour full load
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
[Un] rated nominal voltage	24240 V AC/DC 50/60 Hz, non self-powered
Safety reliability data	B10d = 290000 MTTFd = 308.2 years
Control type	Without test button
Width	35 mm
Net weight	0.08 kg
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
Vibration resistance	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
Shock resistance	5 gn conforming to IEC 60068-2-27
Standards	IEC 60255-6
Product certifications	GOST[RETURN]UL[RETURN]GL[RETURN]C-Tick[RETURN]CSA
Ambient air temperature for storage	-4070 °C
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30
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IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP30 (casing) conforming to IEC 60529
IP degree of protection Pollution degree	

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	

PCE
1
4.5 cm
7.8 cm
9.6 cm
136.0 g
S03
48
30.0 cm
30.0 cm
40.0 cm
7.271 kg

Offer Sustainability

WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End Of Life Information
Environmental Disclosure	Product Environmental Profile
RoHS exemption information	₫Yes
China RoHS Regulation	China RoHS Declaration
Mercury free	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
Sustainable offer status	Green Premium product
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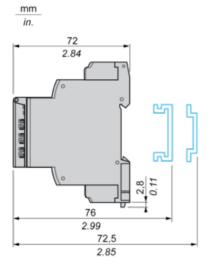
Contractual warranty

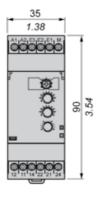
Warranty	18 months

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Multifunction Voltage Control Relays

Dimensions and Mounting



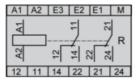


Product data sheet Connections and Schema

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Multifunction Voltage Control Relays

Wiring Diagram

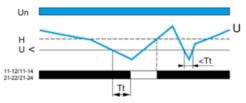


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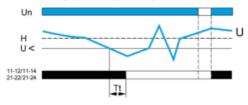
Function Diagrams

Undervoltage Control

Without memory ("No Memory" mode)

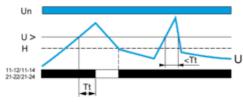


With memory ("Memory" mode)

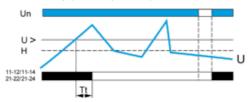


Overvoltage Control

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.