



Main

Range of product	Zelio Control
Product or component type	Modular measurement and control relays
Relay type	Multifunction voltage control relay
Relay name	RM35UA
Relay monitored parameters	Overtoltage or undervoltage detection
Time delay type	Adjustable 0.3...30 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	0...3.5 VA AC
Measurement range	15...600 V voltage
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

Complementary

Reset time	1500 Ms time delay
Maximum switching voltage	250 V AC/DC
[Us] rated supply voltage	24...240 V AC/DC 50/60 Hz +/- 10 %
Supply voltage limits	20.4...264 V AC/DC
Maximum power consumption in W	0.6 W DC
Immunity to microbreaks	10 Ms
Control circuit frequency	40...70 Hz +/- 10 %
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
Maximum measuring cycle	30 Ms measurement cycle as true rms value
Hysteresis	5...50 % of threshold setting
Run-up delay at power-up	600 Ms
Measurement accuracy	+/- 10 % of the full scale 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
Polarity	Non reversible polarity on DC supply
Sensitivity scale	15...150 V E1-M terminals 30...300 V E2-M terminals 60...600 V E3-M terminals
Threshold setting	10...100 %
Quality labels	CE
Overvoltage category	III conforming to IEC 60664-1
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 > 500 MOhm at 500 V DC between supply and relay output conforming- to IEC 60664-1 > 500 MOhm at 500 V DC between measurement and relay output conforming- to IEC 60255-5 > 1 MOhm at 500 V DC between supply and measurement conforming- to IEC 60664-1
[UI] rated insulation voltage	250 V conforming to IEC 60664-1 600 V conforming to IEC 60664-1
Control circuit voltage limits	- 15 % + 10 % Un
Operating position	Any position without derating
Connections - terminals	Screw terminals, 1 x 0.5...1 x 4 mm ² (AWG 20...AWG 11) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm ² (AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...2 x 2.5 mm ² (AWG 24...AWG 12) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm ² (AWG 24...AWG 16) flexible with cable end
Tightening torque	0.6...1 N.M conforming to IEC 60947-1
Housing material	Self-extinguishing plastic
Local signalling	LED (green)power ON: LED (yellow)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
Safety reliability data	B10d = 290000 MTTFd = 308.2 years
Width	35 Mm
Net weight	0.08 Kg
Compatibility code	RM3

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
Product certifications	GOST UL GL C-Tick CSA
Directives	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-20...50 °C
Relative humidity	95 % at 55 °C conforming to IEC 60068-2-30
Vibration resistance	0.35 mm (f= 5...57.6 Hz) conforming to IEC 60068-2-6 1 gn (f= 57.6...150 Hz) conforming to IEC 60255-21-1
Shock resistance	5 gn conforming to IEC 60068-2-27

IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP30 (casing) conforming to IEC 60529
Pollution degree	3 conforming to IEC 60664-1
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

Package 1 Weight	0.137 Kg
Package 1 Height	0.770 Dm
Package 1 width	0.970 Dm
Package 1 Length	0.470 Dm

Offer Sustainability

Sustainable offer status	Green Premium product
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS Declaration
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

Contractual warranty

Warranty	18 months
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Product Life Status : **Commercialised**