Product data sheet
Characteristics

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
Control type	Without test button
Contacts type and composition	2 C/O

Complementary

[Us] rated supply voltage	24...240 V AC/DC 50/60 Hz, non self-powered
Supply voltage limits	20.4…264 V AC/DC
Power consumption in VA	0…3.5 VA AC
Measurement range	15...600 V AC/DC
Maximum measuring cycle	30 Ms measurement cycle as true rms value
Hysteresis	5…50 % of threshold setting
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
Time delay type	Adjustable 0.3...30 s, 0 + 10 % Tt- time delay upon fault
Setting accuracy of time delay	10 %
Reset time	1500 Ms time delay
Run-up delay at power-up	600 Ms
Output contacts	2 C/O
Nominal output current	5 A
Maximum switching voltage	250 V AC/DC
Switching capacity in VA	1250 VA
Minimum switching current	10 MA at 5 V DC
Maximum switching current	5 A AC/DC
Electrical durability	100000 Cycles
Mechanical durability	30000000 Cycles
Control circuit voltage limits	- 15 % + 10 % Un
Maximum power consumption in W	0.6 W DC
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
Measurement accuracy	+/- 10 % of the full scale value

Polarity	Non reversible polarity on DC supply
Quality labels	CE
Threshold setting	10...100 %

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 Immunity for industrial environments conforming to NF EN/IEC 61000-6-2
Standards	IEC 60255-6
Product certifications	GOST[RETURN]UL[RETURN]GL[RETURN]C-Tick[RETURN]CSA
Directives	73/23/EEC - low voltage directive 89/336/EEC - electromagnetic compatibility
Ambient air temperature for storage	-40…70 °C -40…70 °C
Ambient air temperature for operation	-20…50 °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
Overvoltage category	III conforming to IEC 60664-1
Dielectric test voltage	2 KV, 1 min AC 50 Hz conforming to IEC 60255-5
Insulation resistance	> 500 MOhm at 500 V DC between supply and relay output conforming to IEC 60255-5
[Ui] rated insulation voltage	250 V conforming to IEC 60664-1
Operating position	Any position without derating
Connections - terminals	Screw terminals, 1 x 0.5...1 x 4 mm² (20 AWG...11 AWG) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm² (20 AWG...14 AWG) solid without cable end Screw terminals, 1 x 0.2...2 x 2.5 mm² (24 AWG...12 AWG) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm² (24 AWG...16 AWG) flexible with cable end
Tightening torque	0.6…1 N.M conforming to IEC 60947-1
Housing material	Polycarbonate
Local signalling	LED (green) for power ON LED (yellow) for relay ON
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715
Safety reliability data	B10d = 290000 MTTFd = 308.2 years
Height	90 Mm 88.9 Mm
Width	35 Mm 35.6 Mm
Depth	72 Mm 71.1 Mm
Net weight	0.13 Kg 0.13 Kg

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 Cm
Package 2 Width	30 Cm
Package 2 Length	40 Cm
Package 2 Weight	7.271 Kg

Offer Sustainability

Recyclability potential, in %	8
Total lifecycle Carbon footprint	64 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	1.6443636364
Carbon footprint of the manufacturing phase [A1 to A3]	2 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0103214545
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.0003991345
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	61.80384
Carbon footprint of the use phase [B2, B3, B4, B6]	62 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.0464858182
Carbon footprint of the end-of-life phase [C1 to C4]	0 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	64
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	5e3fdf99-611b-4d07-ad17-6eba84ab488b
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised