Product data sheet
Characteristics

RM35LM33MW
level control relay, Harmony Control Relays, 5A, 2CO, 24...240V AC DC



Main

Range of product	Harmony Control Relays
Relay type	Level control relay
Product or component type	Level control relay
Relay name	RM35L
Relay monitored parameters	Detection by resistive probes
Time delay type	Adjustable 0.1...5 s, +/- 10 % Tt- time delay upon fault
Switching capacity in VA	1250 VA
Minimum switching current	10 MA at 5 V DC
Maximum switching current	5 A AC/DC
Maximum power consumption in VA	5 VA AC
Measurement range	250 Ohm...1 MOhm
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
Contacts type and composition	2 C/O

Complementary

Reset time	1750 Ms
Maximum switching voltage	250 V AC/DC
[Us] rated supply voltage	24...240 V AC/DC 50/60 Hz, non self-powered
Supply voltage limits	20.4…264 V AC/DC
Control circuit voltage limits	- 15 % + 10 % Un
Maximum power consumption in W	1.5 W DC
Output contacts	2 C/O
Nominal output current	5 A
Run-up delay at power-up	0.6 S
Measurement accuracy	+/- 10 % of the full scale value +/- 20 % for the HS range
Repeat accuracy	+/- 2 % for time delay
Measurement error	0.5 %/°C with temperature variation
Maximum cable distance between devices	100 M
Sensitivity scale	0.25...5 kOhm LS (Low Sensitivity) 5...100 kOhm St (Standard Sensitivity) 50...1000 kOhm HS (High Sensitivity)
Sensitivity adjustment	5…100 %
Maximum supply current for sensors	1 MA

Cable capacitance	1 NF at HS (High Sensitivity) for probe cable 2.2 NF at St (Standard Sensitivity) for probe cable 4.7 NF at LS (Low Sensitivity)
Marking	CE : 73/23/EEC CE : EMC 89/336/EEC
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
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, 2 x 0.2...2 x 1.5 mm² (24 AWG...16 AWG) flexible with cable end Screw terminals, 1 x 0.2...1 x 2.5 mm² (24 AWG...12 AWG) flexible with cable end
Tightening torque	0.6…1 N.M conforming to IEC 60947-1
Housing material	Polycarbonate
Local signalling	LED (yellow) for relay ON LED (green) for power ON LED (yellow) for timer ON
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
Measurement range	0.25...1000 kOhm
Safety reliability data	B10d = 170000 MTTFd = 182.6 years
Width	35 Mm
Control type	Without test button

Environment

Immunity to microbreaks	100 Ms DC 90 Ms AC
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	CSA[RETURN]GL[RETURN]UL[RETURN]C-Tick[RETURN]GOST
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
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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.400 Cm
Package 1 Width	7.800 Cm
Package 1 Length	9.500 Cm
Package 1 Weight	134.000 G
Unit Type of Package 2	S03
Number of Units in Package 2	48
Package 2 Height	30.000 Cm
Package 2 Width	30.000 Cm

Package 2 Length	40.000 Cm
Package 2 Weight	7.155 Kg
Unit Type of Package 3	P06
Number of Units in Package 3	384
Package 3 Height	75.000 Cm
Package 3 Width	60.000 Cm
Package 3 Length	80.000 Cm
Package 3 Weight	65.660 Kg

Offer Sustainability

Recyclability potential, in %	0
Total lifecycle Carbon footprint	43 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	9.2602
Carbon footprint of the manufacturing phase [A1 to A3]	9 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.017983
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.044621
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	33.508
Carbon footprint of the use phase [B2, B3, B4, B6]	34 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.25817
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	43
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
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