

Product data sheet

Specifications



Repacked speed control relay, Harmony Control Relays, 5A, 1CO, 24...240V AC DC

RM35S0MWW



**This repacked option saves 2.268 over the
standard condition**

Main

Range of product	Harmony Control Relays
Relay type	Speed control relays
Product or component type	Speed control relay
Relay name	RM35S
Relay monitored parameters	Overspeed Underspeed
Time delay range	0.6...60 s adjustable on energisation delay (tolerance: 0...10 % of the full scale value)
Switching capacity in VA	1250 VA
Minimum switching current	10 mA at 5 V DC
Maximum power consumption in VA	5 VA AC
Measurement range	0.05...0.5 s 0.5...5 min 1...10 min 1...10 s 0.5...5 s 0.1...1 s 0.1...1 min
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
Measurement range	0.05...600 s
time delay	Adjustable 0.6...60 s Ti- inhibition time delay upon startup

Complementary

rest time in memory mode	50 ms contact S2 in memory mode on time delay 1 s supply Un in memory mode on time delay
Maximum switching voltage	250 V AC/DC
[Un] rated nominal voltage	24...240 V AC/DC 50/60 Hz, non self-powered
Supply voltage limits	20.4...264 V AC/DC
Maximum power consumption in W	3 W DC
Width	35 mm
Output contacts	1 C/O
Contacts material	Cadmium free

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

Nominal output current	5 A
delay at power up	0.05 s
Hysteresis	5 % of threshold
Measurement accuracy	+/- 10 % of the full scale value
Repeat accuracy	+/- 0.5 % for input and measurement circuit +/- 0.5 % for time delay
Measurement error	+/- 0.1 %/°C with temperature variation < +/- 1 % over the whole range with voltage variation
Input frequency	0.0017...20 Hz
Response time	15 ms max (on crossing the threshold)
Polarity	Reversible polarity on DC supply
Threshold setting	10...100 %
supply voltage for sensor	11.5...12.5 V
Maximum supply current for sensors	40 mA for < 24 V AC at 25 °C 40 mA for < 24 V DC at 25 °C 50 mA for 24...240 V AC 50 mA for 24...240 V DC
Impulse duration	>= 5 ms high state >= 5 ms low state
Input compatibility	3-wire sensor (E1) PNP or NPN, 12 V, 50 mA NAMUR sensor (E2), 12 V, 1.5 kOhm Voltage input (E1), 0...30 V, 9.5 kOhm, high state >= 4.5 V low state <= 1 V Volt-free contact input (E1), 12 V, 9.5 kOhm
Marking	CE : EMC 89/336/EEC CE : 73/23/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 voltage tolerance	- 15 % + 10 % Un
Supply frequency	50/60 Hz +/- 10 %
Operating position	Any position without derating
Connections - terminals	Screw terminals, 1 x 0.5...1 x 4 mm² (AWG 20...AWG 11) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm² (AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm² (AWG 24...AWG 12) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm² (AWG 24...AWG 16) flexible with cable end
Tightening torque	0.6...1 N.m conforming to IEC 60947-1
Housing material	Polycarbonate
Status LED	1 LED green for power ON 1 LED yellow for inhibit 1 LED yellow for relay (R)
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
Control type	Without test button

Environment

Immunity to microbreaks	50 ms
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
Standards	NF EN 60255-6 IEC 60255-6
Product certifications	C-Tick GOST UL GL CSA
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/IEC 60255-21-1 1 gn (f= 57.6...150 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1
Shock resistance	15 gn for 11 ms conforming to IEC 60255-21-1
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 AC 50 Hz
Non-dissipating shock wave	4 kV

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	4.4 cm
Package 1 Width	7.4 cm
Package 1 Length	9.4 cm
Package 1 Weight	130.0 g

Contractual warranty

Warranty (in months)	18
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Environmental Data

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

Lower carbon footprint

2 kg CO2 eq.

Use Better



Materials and Substances

SCIP Number

5e3fdf99-611b-4d07-ad17-6eba84ab488b

Use Longer



Lifetime extension

Repair

No

Image of product / Alternate images

Alternative





