Product data sheet Characteristics

RM35S0MW

speed control relay RM35-S - 24..240 V AC/DC



Main

Mani	
Commercial Status	Commercialised
Range of product	Zelio Control
Product or component type	Modular measurement and control relays
Relay type	Speed control relays
Relay name	RM35S
Relay monitored parameters	Overspeed Underspeed
Time delay range	0.660 s adjustable on energisation (010 % of the full scale value)
Switching capacity in VA	1250 VA
Minimum switching cur- rent	10 mA at 5 V DC
[Us] rated supply voltage	24240 V AC/DC
Power consumption in VA	<= 5 VA AC
Measurement range	0.050.5 s 0.11 min 0.11 s 0.55 min 0.55 s 110 min 110 s
Utilisation category	DC-14 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1 DC-12 conforming to IEC 60947-5-1 AC-15 conforming to IEC 60947-5-1 AC-14 conforming to IEC 60947-5-1 AC-13 conforming to IEC 60947-5-1 AC-12 conforming to IEC 60947-5-1

Complementary

1 s supply Un in memory mode on time delay >= 50 ms contact S2 in memory mode on time delay 250 V AC/DC
20.4264 V AC/DC
<= 3 W DC
35 mm
1 C/O
Cadmium free
5 A
0.05 s
5 % of threshold
+/- 10 % of the full scale value
+/- 0.5 % for time delay +/- 0.5 % for input and measurement circuit
< +/- 1 % over the whole range with voltage variation +/- 0.1 %/°C with temperature variation
0.001720 Hz
15 ms max on crossing the threshold
Reversible polarity on DC supply
10100 %

Supply voltage for sensor	11.512.5 V
Supply current for sensors	50 mA for 24240 V DC 50 mA for 24240 V AC 40 mA for < 24 V DC at 25 °C
	40 mA for < 24 V AC at 25 °C
Impulse duration	>= 5 ms low state >= 5 ms high state
Input compatibility	Volt-free contact input (E1), 12 V, 9.5 kOhm Voltage input (E1), 030 V, 9.5 kOhm, high state >= 4.5 V low state <= 1 V NAMUR sensor (E2), 12 V, 1.5 kOhm 3-wire sensor (E1) PNP or NPN, 12 V, 50 mA
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 conforming to IEC 60664-1 > 500 MOhm at 500 V DC conforming to IEC 60255-5
[Ui] rated insulation voltage	250 V conforming to IEC 60664-1
Operating voltage tolerance	- 15 % + 10 % Un
Supply frequency	50/60 Hz +/- 10 %
Insulation	No galvanic insulation between supply and measurement
Operating position	Any position without derating
Connections - terminals	Screw terminals 2 x 0.22 x 1.5 mm² - AWG 24AWG 16, flexible cable with cable end Screw terminals 1 x 0.21 x 2.5 mm² - AWG 24AWG 12, flexible cable with cable end Screw terminals 2 x 0.52 x 2.5 mm² - AWG 20AWG 14, solid cable without cable end Screw terminals 1 x 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end
Tightening torque	0.61 N.m conforming to IEC 60947-1
Housing material	Self-extinguishing plastic
Status LED	1 LED yellow for relay (R) 1 LED yellow for inhibit 1 LED green for power 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 under full load
Environment	
Immunity to microbreaks	50 ms
Claster and an atial and a tile life.	
Electromagnetic compatibility	Immunity for industrial environments conforming to NF EN/IEC 61000-6-2 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Emission standard for industrial environments conforming to EN/IEC 61000-6-4
Standards	Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3
	Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Emission standard for industrial environments conforming to EN/IEC 61000-6-4 IEC 60255-6
Standards Product certifications	Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Emission standard for industrial environments conforming to EN/IEC 61000-6-4 IEC 60255-6 NF EN 60255-6 CSA C-Tick GL GOST
Standards Product certifications Ambient air temperature for storage	Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Emission standard for industrial environments conforming to EN/IEC 61000-6-4 IEC 60255-6 NF EN 60255-6 CSA C-Tick GL GOST UL
Standards Product certifications Ambient air temperature for storage Ambient air temperature for operation	Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Emission standard for industrial environments conforming to EN/IEC 61000-6-4 IEC 60255-6 NF EN 60255-6 CSA C-Tick GL GOST UL -4070 °C
Standards	Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Emission standard for industrial environments conforming to EN/IEC 61000-6-4 IEC 60255-6 NF EN 60255-6 CSA C-Tick GL GOST UL -4070 °C -2050 °C
Standards Product certifications Ambient air temperature for storage Ambient air temperature for operation Relative humidity	Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Emission standard for industrial environments conforming to EN/IEC 61000-6-4 IEC 60255-6 NF EN 60255-6 CSA C-Tick GL GOST UL -4070 °C -2050 °C 95 % at 55 °C conforming to IEC 60068-2-30 1 gn (f = 57.6150 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1
Standards Product certifications Ambient air temperature for storage Ambient air temperature for operation Relative humidity Vibration resistance	Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Emission standard for industrial environments conforming to EN/IEC 61000-6-4 IEC 60255-6 NF EN 60255-6 CSA C-Tick GL GOST UL -4070 °C -2050 °C 95 % at 55 °C conforming to IEC 60068-2-30 1 gn (f = 57.6150 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1 0.35 mm (f = 557.6 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1
Standards Product certifications Ambient air temperature for storage Ambient air temperature for operation Relative humidity Vibration resistance Shock resistance	Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Emission standard for industrial environments conforming to EN/IEC 61000-6-4 IEC 60255-6 NF EN 60255-6 CSA C-Tick GL GOST UL -4070 °C -2050 °C 95 % at 55 °C conforming to IEC 60068-2-30 1 gn (f = 57.6150 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1 0.35 mm (f = 557.6 Hz) conforming to IEC 60068-2-6/IEC 60255-21-1 15 gn for 11 ms conforming to IEC 60255-21-1 IP30 (casing) conforming to IEC 60529

