

Main

Range of product	Zelio Control
Product or component type	Modular measurement and control relays
Relay type	Current control relay
Relay name	RM35JA
Relay monitored parameters	Overcurrent or undercurrent detection
Time delay	Adjustable 1...20 s 0 + 10 % on energisation Ti Adjustable 0,3...30 s 0 + 10 % on crossing the threshold Tt
Switching capacity in VA	1250 VA
Minimum switching current	10 mA 5 V DC
Maximum switching current	5 A AC/DC
Power consumption in VA	≤ 3,5 VA AC
Measurement range	2...20 mA E1-M terminals 2...500 mA current 10...100 mA E2-M terminals 50...500 mA E3-M terminals
Electrical connection	1 conductor cable 0,2...2,5 mm² AWG24...AWG12 flexible with cable end IEC 60947-1 1 conductor cable 0,5...4 mm² AWG20...AWG11 solid without cable end IEC 60947-1 2 conductors cable 0,2...1,5 mm² AWG24...AWG16 flexible with cable end IEC 60947-1 2 conductors cable 0,5...2,5 mm² AWG20...AWG14 solid without cable end IEC 60947-1
Utilisation category	AC-12 IEC 60947-5-1 AC-13 IEC 60947-5-1 AC-14 IEC 60947-5-1 AC-15 IEC 60947-5-1 DC-12 IEC 60947-5-1 DC-13 IEC 60947-5-1 DC-14 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
Supply voltage limits	20,4...264 V AC/DC
Control circuit voltage limits	- 15 % + 10 % Un
Power consumption in W	≤ 0,6 W DC
Control circuit frequency	40...70 Hz +/- 10 %
Supply frequency	50/60 Hz +/- 10 %
Resistance across terminals	0,2 Ohm E3-M terminals 1 Ohm E2-M terminals 5 Ohm E1-M terminals
Width	35 mm
Output contacts	2 C/O
Nominal output current	5 A
Measuring cycle	≤ 30 ms measurement cycle as true rms value
Hysteresis	5...50 % threshold setting

Run-up delay at power-up	0,3 s
Measurement accuracy	+/- 10 % of the full scale value
Repeat accuracy	+/- 0.5 % input and measurement circuit +/- 2 % time delay
Measurement error	0.05 %/°C with temperature variation 1 by volt over the whole range with voltage variation
Polarity	No DC
Threshold setting	10...100 %
Marking	CE : 73/23/EEC CE : EMC 89/336/EEC
Overvoltage category	III IEC 60664-1
Insulation resistance	> 500 MOhm 500 V DC IEC 60664-1 > 500 MOhm 500 V DC IEC 60255-5
[Ui] rated insulation voltage	250 V IEC 60664-1
Supply measurement isolation	Yes
Operating position	Any position without
Tightening torque	0,6...1 N.m IEC 60947-1
Housing material	Self-extinguishing plastic
Status LED	1 LED green power ON 1 LED yellow relay ON
Mounting support	35 mm symmetrical DIN rail EN/IEC 60715
Electrical durability	100000 cycles
Mechanical durability	30000000 cycles
Operating rate	<= 360 operations/hour full load
Contacts material	Cadmium - free
Product weight	0,13 kg

Environment

Immunity to microbreaks	50 ms
Electromagnetic compatibility	Emission standard for industrial environments EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments EN/IEC 61000-6-3 Immunity for industrial environments NF EN/IEC 61000-6-2
Standards	EN/IEC 60255-6
Product certifications	C-Tick CSA GL GOST UL
Ambient air temperature for storage	-40...70 °C
Ambient air temperature for operation	-20...50 °C
Relative humidity	95 % 55 °C IEC 60068-2-30
Vibration resistance	0.35 mm 5...57,6 Hz IEC 60068-2-6/IEC 60255-21-1 1 gn 57,6...150 Hz IEC 60068-2-6/IEC 60255-21-1
Shock resistance	15 gn 11 ms IEC 60255-21-1
IP degree of protection	IP20 terminals IEC 60529 IP30 casing IEC 60529
Pollution degree	3 IEC 60664-1
Dielectric test voltage	2 kV 1 min AC 50 Hz IEC 60255-5 2 kV 1 min AC 50 Hz IEC 60664-1
Non-dissipating shock wave	4 kV IEC 61000-4-5 4 kV IEC 60664-1 4 kV IEC 60255-5
RoHS EUR conformity date	0701
RoHS EUR status	Compliant