RM35JA32MW

current control relay RM35-J - range 0.15..1.5 A



Product availability: Stock - Normally stocked in distribution facility



Main Range of product Zelio Control Product or component Modular measurement and control relays Relay type Current control relay RM35JA Relay name Relay monitored para-Overcurrent or undercurrent detection meters Time delay Adjustable 1...20 s, 0 + 10 % on energisation Ti Adjustable 0.3...30 s, 0 + 10 % on crossing the threshold Tt 1250 VA Switching capacity in VA 10 mA at 5 V DC Minimum switching current Maximum switching cur-5 A AC/DC Power consumption in 3.5 VA AC ۷A 0.15...1.5 A E1-M terminals Measurement range 0.5...5 A E2-M terminals 1.5...15 A E3-M terminals 150 mA...15 A current 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

Complementary

Reset time	1500 ms time delay	
Maximum switching voltage	250 V AC/DC	
[Us] rated supply voltage	24240 V AC/DC, 50/60 Hz +/- 10 %	
Supply voltage limits	20.4264 V AC/DC	
Operating voltage tolerance	- 15 % + 10 % Un	
Power consumption in W	<= 0.6 W DC	
Control circuit frequency	4070 Hz +/- 10 %	
Resistance across terminals	0.005 Ohm E3-M terminals 0.015 Ohm E2-M terminals 0.05 Ohm E1-M terminals	
Output contacts	2 C/O	
Nominal output current	5 A	
Measuring cycle	<= 30 ms measurement cycle as true rms value	
Hysteresis	550 % of threshold setting	
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	10100 %	
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 0.51 x 4 mm² - AWG 20AWG 11, solid cable without cable end Screw terminals 2 x 0.52 x 2.5 mm² - AWG 20AWG 14, solid cable without cable end Screw terminals 1 x 0.21 x 2.5 mm² - AWG 24AWG 12, flexible cable with cable end Screw terminals 2 x 0.22 x 1.5 mm² - AWG 24AWG 16, flexible cable with cable end	
Tightening torque	5.318.85 lbf.in (0.61 N.m) conforming to IEC 60947-1	
Housing material	Self-extinguishing plastic	
Local signalling	LED green power ON LED yellow relay 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	
Safety reliability data	MTTFd = 296.8 years B10d = 270000	
Contacts material	Cadmium free	
Width	1.38 in (35 mm)	
Product weight	0.29 lb(US) (0.13 kg)	

Environment

Immunity to microbreaks	50 ms Emission standard for industrial environments conforming to EN/IEC 61000-6-4 Emission standard for residential, commercial and light-industrial environments conforming to EN/IEC 61000-6-3 Immunity for industrial environments conforming to NF EN/IEC 61000-6-2	
Electromagnetic compatibility		
Standards	EN/IEC 60255-6	
Product certifications	CSA C-Tick GL GOST UL	
Ambient air temperature for storage	-40158 °F (-4070 °C)	
Ambient air temperature for operation	-4122 °F (-2050 °C)	
Relative humidity	95 % at 131 °F (55 °C) conforming to IEC 60068-2-30	
Vibration resistance	0.35 mm (f = 557.6 Hz) conforming to IEC 60068-2-6 1 gn (f = 57.6150 Hz) conforming to IEC 60255-21-1	
Shock resistance	15 gn 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, 1 min conforming to IEC 60255-5 2 kV AC 50 Hz, 1 min conforming to IEC 60664-1	
Non-dissipating shock wave	4 kV conforming to IEC 60255-5 4 kV conforming to IEC 60664-1 4 kV conforming to IEC 61000-4-5	

Ordering and shipping details

CP2	
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Offer Sustainability

Sustainable offer status	Green Premium product	
RoHS (date code: YYWW)	Compliant - since 0701 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity	
REACh	Reference not containing SVHC above the threshold	
Product environmental profile	Available	
Product end of life instructions	Available	
California proposition 65	WARNING: This product can expose you to chemicals including:	
Substance 1	Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm.	
More information	For more information go to www.p65warnings.ca.gov	

Contractual warranty

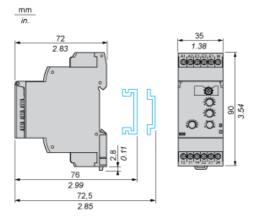
Warranty period	18 months	

Product data sheet Dimensions Drawings

RM35JA32MW

Current Control Relays

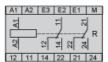
Dimensions and Mounting



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Current Control Relays

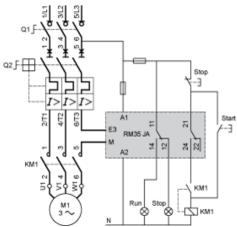
Wiring Diagram



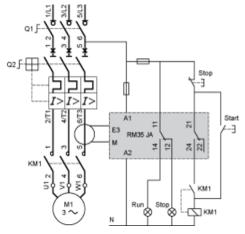
Application Schemes

Example: Detection of Jamming on a Crusher (Overcurrent Function)

Current measured ≤ 15 A



Current measured > 15 A



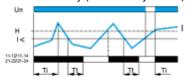
Product data sheet Technical Description

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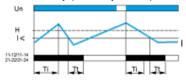
Function Diagrams

Undercurrent Detection

Without memory ("No Memory" mode)

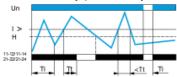


With memory ("Memory" mode)

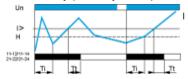


Overcurrent Detection

Without memory ("No Memory" mode)



With memory ("Memory" mode)



Legend

Ti Starting inhibition time delay

Tt Time delay after crossing of threshold

Un Supply voltage

I Monitored current

H Hysteresis

I> Overcurrent threshold

I< Undercurrent threshold

11-12/11-14, 21-22/21-24 Output relay connections

Relay status: black color = energized.

NOTE: In "Memory" mode, the relay opens when crossing of the threshold is detected and then stays in that position. The power supply voltage must be switched off to reset the product.

Mouser Electronics

Authorized Distributor

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Schneider Electric: RM35JA32MW