

current control relay, Harmony Control Relays, 8A, 2CO, 150mA…15A, 380…415V AC

RM35JA32MT

Main

Range Of Product	Harmony Control Relays	
Relay Type	Current control relay	
Product Or Component Type	Current control relay	
Relay Name	RM35JA	
Relay Monitored Parameters	Overcurrent or undercurrent detection Overcurrent or undercurrent in window mode	
Time Delay	Adjustable 0.130 s, +/- 10 % of the full scale value Tt- time delay upon fault	
Switching Capacity In Va	2000 VA	
Minimum Switching Current	10 mA at 5 V DC	
Maximum Switching Current	8 A AC	
Maximum Power Consumption In Va	8 VA	
Measurement Range	150 mA15 A AC 50/60 Hz	
Utilisation Category	AC-15 conforming to IEC 60947-5-1 DC-13 conforming to IEC 60947-5-1 AC-1 conforming to IEC 60947-4-1 DC-1 conforming to IEC 60947-4-1	
Contacts Type And Composition	2 C/O	

Complementary

1500 ms at maximum voltage
250 V AC
323456.5 V AC
- 15 % + 10 % Un
0.005 Ohm at E3-M terminals
0.015 Ohm at E2-M terminals
0.05 Ohm at E1-M terminals
2 C/O
8 A
100 ms measurement cycle as true rms value
0.005 Ohm
0.015 Ohm
0.05 Ohm
+/- 10 % of the full scale
+/- 20 % of the full scale
<= 0.05 % per degree centigrade depending permissible ambient air temperature <= 1 % within the supply voltage range

Setting Accuracy Of Time Delay	10 P
Time Delay Drift	<= 0.05 % per degree centigrade depending permissible ambient air temperature <= 1 % within the supply voltage range
Hysteresis	550 % adjustable of threshold setting 3 % fixed of full scale for window mode
Delay At Power Up	0.3 s
Repeat Accuracy	+/- 0.5 % for input and measurement circuit +/- 2 % for time delay
Measurement Error	< 1 % over the whole range with voltage variation 0.05 %/°C with temperature variation
Response Time	<= 500 ms (on crossing the threshold)
Threshold Setting	10100 %
Overvoltage Category	III conforming to IEC 60664-1 III conforming to UL 508
Insulation Resistance	> 100 MOhm at 500 V DC conforming to IEC 60255-27
Insulation	Between supply and measurement
Connections - Terminals	Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 14) solid without cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end Screw terminals, 1 x 0.51 x 3.3 mm² (AWG 20AWG 12) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end
Tightening Torque	0.61 N.m conforming to IEC 60947-1
Housing Material	Self-extinguishing plastic
Local Signalling	LED (yellow) for relay ON LED (green) for power ON
Mounting Support	35 mm DIN rail conforming to IEC 60715
Electrical Durability	100000 cycles
Mechanical Durability	10000000 cycles
[Un] Rated Nominal Voltage	380415 V AC 50/60 Hz, non self-powered
Safety Reliability Data	MTTFd = 296.8 years B10d = 270000
Contacts Material	Cadmium free
Width	35 mm
	Name of the contract of the co
Control Type	With test button

Environment

Immunity To Microbreaks 50 ms

Electromagnetic Compatibility	Immunity for residential, commercial and light-industrial environments conforming to IEC 61000-6-1
	Immunity for industrial environments conforming to IEC 61000-6-2
	Emission standard for industrial environments conforming to IEC 61000-6-4
	Electrostatic discharge - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2
	Electrostatic discharge - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2
	Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m level 3 conforming to IEC 61000-4-3
	Electrical fast transient/burst immunity test - test level: 4 kV level 4 (direct) conforming to IEC 61000-4-4
	Electrical fast transient/burst immunity test - test level: 2 kV level 4 (capacitive coupling) conforming to IEC 61000-4-4
	Surge immunity test - test level: 4 kV level 4 (common mode) conforming to IEC 61000-4-5
	Surge immunity test - test level: 2 kV level 4 (differential mode) conforming to IEC 61000-4-5
	Conducted and radiated emissions class B group 1 conforming to CISPR 11
	Conducted and radiated emissions class B conforming to CISPR 22
	Emission standard for residential, commercial and light-industrial environments (except radiated emission) conforming to IEC 61000-6-3
Standards	IEC 60255-1
Product Certifications	CCC EAC
	CSA
	RCM
	UL Gl
	GL CE
Ambient Air Temperature For Storage	-4070 °C
Ambient Air Temperature For Operation	-2050 °C at 60 Hz -2060 °C at 50 Hz
Environmental Characteristic	3K3 C
Relative Humidity	9397 % at 2555 °C conforming to IEC 60068-2-30
Vibration Resistance	0.075 mm (f= 1058.1 Hz) not in operation conforming to IEC 60068-2-6
	1 gn (f= 1058.1 Hz) not in operation conforming to IEC 60068-2-6
	0.035 mm (f= 58.1150 Hz) in operation conforming to IEC 60068-2-6 0.5 gn (f= 58.1150 Hz) in operation conforming to IEC 60068-2-6
Shock Resistance	15 gn (duration = 11 ms) for not in operation conforming to IEC 60068-2-27
SHOCK RESISTANCE	5 gn (duration = 11 ms) for in operation conforming to IEC 60068-2-27
Ip Degree Of Protection	IP20 (terminals) conforming to IEC 60529
	IP50 (front panel) conforming to IEC 60529 IP30 (housing) conforming to IEC 60529
Pollution Degree	3 conforming to IEC 60664-1
	3 conforming to IEC 00004-1
Dielectric Test Voltage	2.5 kV, 1 min AC 50 Hz conforming to IEC 60255-27
Packing Units	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	7.8 cm
Package 1 Width	4.5 cm
Package 1 Length	9.5 cm
Package 1 Weight	129 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	40
Package 2 Height	1F om

15 cm

Package 2 Height

Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	4.532 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	640
Package 3 Height	75 cm
Package 3 Width	40 cm
Package 3 Length	80 cm
Package 3 Weight	107.56 kg

Sustainability

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

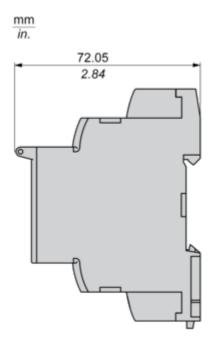
Yes

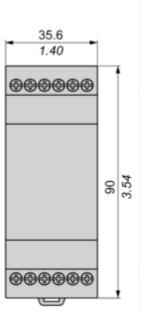
Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Circularity Profile	End of Life Information
California Proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

Dimensions Drawings

Dimensions



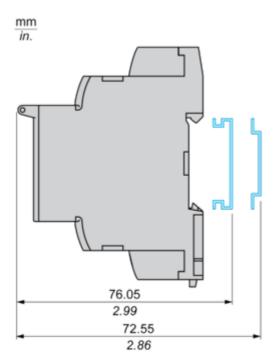


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Mounting and Clearance

Mounting and Clearance

Rail Mounting



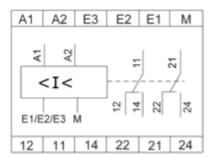
Product data sheet

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Connections and Schema

Current Measurement Relay

Wiring Diagram



A1,A2 : Supply voltage

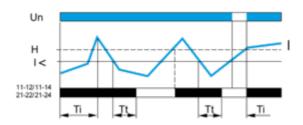
E1,E2,E3,M: Currents to be measured 11-14,12: 1st C/O contact of output relay 21-24,22: 2nd C/O contact of output relay

Technical Description

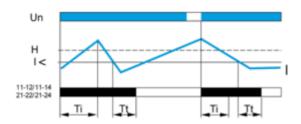
Function Diagrams

Undercurrent Detection

Without memory ("No Memory" mode)

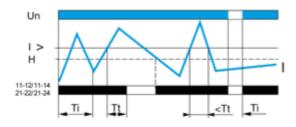


With memory ("Memory" mode)

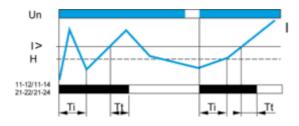


Overcurrent Detection

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.

Product data sheet

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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.