Specifications



current control relay, Harmony Control Relays, 5A, 2CO, overcurrent or undercurrent detection, 0.15…15A, 24…240V AC DC

RM35JA32MW

Product availability: Stock - Normally stocked in distribution facility

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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		
time delay	Adjustable 0.330 s, 0 + 10 % Tt- time delay upon fault Adjustable 120 s, 0 + 10 % Ti- inhibition time delay upon startup		
Switching capacity in VA	1250 VA		
Minimum switching current	10 mA 5 V DC		
Maximum switching current	5 A AC/DC		
Maximum power consumption in VA	3.5 VA AC		
Measurement range	150 mA15 A current AC/DC		
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		
Contacts type and composition	2 C/O		

### Complementary

Reset time	1500 ms time delay
Maximum switching voltage	250 V AC/DC
Supply voltage limits	20.4264 V AC/DC
operating voltage tolerance	- 15 % + 10 % Un
Maximum 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

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

Maximum measuring cycle	30 ms measurement cycle as true rms value		
Hysteresis	550 % 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 : EMC 89/336/EEC CE : 73/23/EEC		
Overvoltage category	III conforming to IEC 60664-1		
Insulation resistance	<ul> <li>&gt; 500 MOhm 500 V DC between supply and relay output IEC 60255-5</li> <li>&gt; 500 MOhm 500 V DC between measurement and relay output IEC 60664-1</li> <li>&gt; 1 MOhm 500 V DC between supply and measurement IEC 60255-5</li> <li>&gt; 500 MOhm 500 V DC between supply and relay output IEC 60664-1</li> <li>&gt; 500 MOhm 500 V DC between measurement and relay output IEC 60255-5</li> <li>&gt; 1 MOhm 500 V DC between supply and measurement IEC 60664-1</li> </ul>		
[Ui] rated insulation voltage	250 V IEC 60664-1		
Operating position	Any position without derating		
Connections - terminals	Screw terminals, 1 x 0.51 x 4 mm <sup>2</sup> AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm <sup>2</sup> AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm <sup>2</sup> AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm <sup>2</sup> AWG 24AWG 16) flexible with cable end		
Tightening torque	5.38.9 lbf.in (0.61 N.m) IEC 60947-1		
Housing material	Self-extinguishing plastic		
Local signalling	for power ON LED (green) for relay ON LED (yellow)		
Mounting support	35 mm symmetrical DIN rail conforming to IEC 60715		
Electrical durability	100000 cycles		
Mechanical durability	3000000 cycles		
Operating rate	<= 360 operations/hour full load		
[Un] rated nominal voltage	24240 V AC/DC 50/60 Hz, non self-powered		
Safety reliability data	MTTFd = 296.8 years B10d = 270000		
Contacts material	Cadmium free		
Width	1.4 in (35 mm)		
Control Type	Without test button		
Net Weight	0.29 lb(US) (0.13 kg)		

## 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	IEC 60255-6

Product Certifications	GL
	UL
	GOST
	C-tick
	CSA
	00/1
Ambient Air Temperature for Storage	-40158 °F (-4070 °C)
Ambient air temperature for operation	-4122 °F (-2050 °C)
Relative humidity	95 % 131 °F (55 °C) 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 IEC 60255-21-1
IP degree of protection	IP20 IEC 60529 terminals)
	IP30 IEC 60529 casing)
Pollution degree	3 IEC 60664-1
Dielectric test voltage	2 kV AC 50 Hz, 1 min IEC 60255-5
	2 kV AC 50 Hz, 1 min IEC 60664-1
Non-dissipating shock wave	4 kV IEC 60255-5
	4 kV IEC 60664-1
	4 kV IEC 61000-4-5

## Ordering and shipping details

Category	US10CP222380
Discount Schedule	0CP2
GTIN	3389119405225
Returnability	Yes
Country of origin	СА

### **Packing Units**

-	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.77 in (4.500 cm)
Package 1 Width	3.15 in (8.000 cm)
Package 1 Length	3.74 in (9.500 cm)
Package 1 Weight	4.797 oz (136.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	48
Package 2 Height	11.81 in (30.000 cm)
Package 2 Width	11.81 in (30.000 cm)
Package 2 Length	15.75 in (40.000 cm)
Package 2 Weight	16.074 lb(US) (7.291 kg)

# Contractual warranty

Warranty

18 months

## Lenvironmental 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  $\geq$ 

${\mathcal Q}$ Environmental footprint	
Carbon footprint (kg CO2 eq, Total Life cycle)	58
Environmental Disclosure	Product Environmental Profile

#### Use Better

Materials and Substances	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
REACh Regulation	REACh Declaration
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

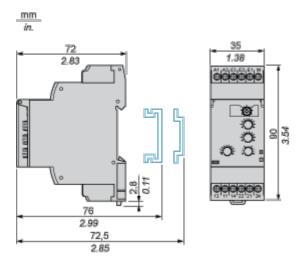
#### Use Again

${\mathbb O}$ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

**Dimensions Drawings** 

### **Current Control Relays**

#### **Dimensions and Mounting**



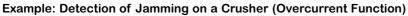
Connections and Schema

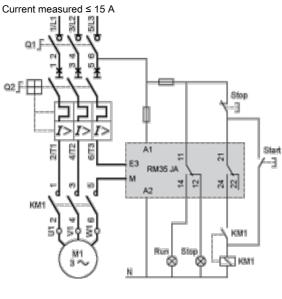
### **Current Control Relays**

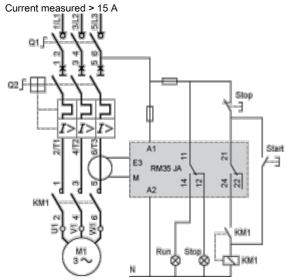
### Wiring Diagram

A1 A2	E3	E2	E1	M
11		티	21	
	]	÷	/	R
A2	_∺[	7 8	3	
12 11	14	22	21	24

#### **Application Schemes**

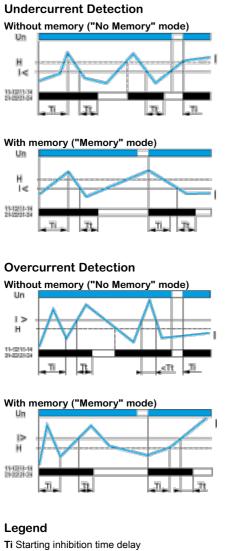






**Technical Description** 

#### **Function Diagrams**



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.

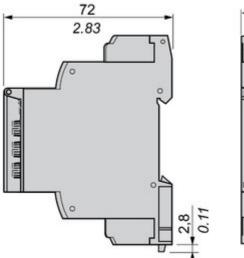
## Product data sheet

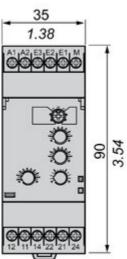
### **Technical Illustration**

### Dimensions

mm

in.





#### Offer Marketing Illustration

#### **Product benefits / Features**



Offer Marketing Illustration

#### **Product benefits / Features**



## Product data sheet

Image of product / Alternate images

### Alternative

