# Product data sheet

Specifications

#### Green Premium"



## 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

### Price\*: 177.00 USD

### 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
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	0.151.5 A AC/DC E1-M terminals 0.55 A E2-M terminals 1.515 A E3-M terminals 150 mA15 A current
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 %

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

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
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 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	5.318.85 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	AC/DC non self-powered
Safety Reliability Data	MTTFd = 296.8 years B10d = 270000
Contacts Material	Cadmium free
Width	1.38 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 anvironments conforming to IEC 64000.6.4
	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
	5
	Immunity for industrial environments conforming to NF EN/IEC 61000-6-2
Standards	IEC 60255-6
Product Certifications	GL
	UL
	GOST
	C-tick
	CSA
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 557.6 Hz)IEC 60068-2-6
	1 gn 57.6150 Hz)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	CA

## **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	5.11 oz (145.000 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	17.05 lb(US) (7.735 kg)

## **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> 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-CO<sub>2</sub> 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**

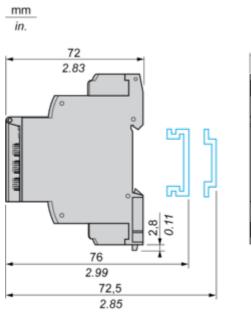
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Weee Circularity Profile	

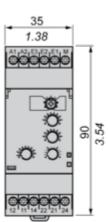
## Product data sheet

**Dimensions Drawings** 

### **Current Control Relays**

### **Dimensions and Mounting**



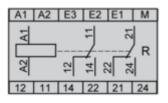


## Product data sheet

Connections and Schema

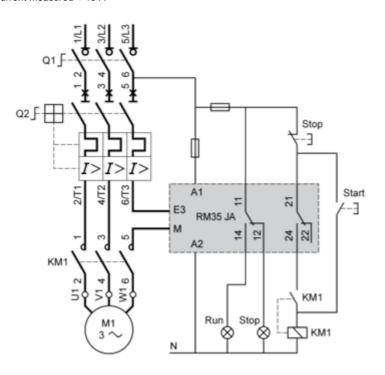
### Current Control Relays

### Wiring Diagram

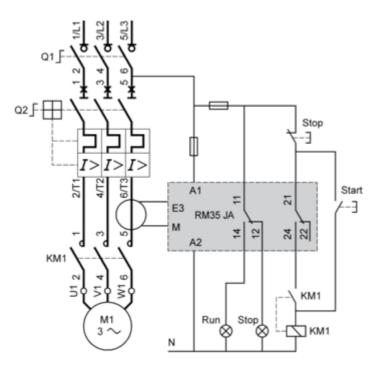


#### **Application Schemes**

Example: Detection of Jamming on a Crusher (Overcurrent Function) Current measured ≤ 15 A



Current measured > 15 A

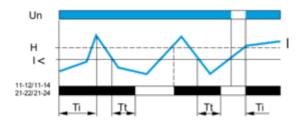


**Technical Description** 

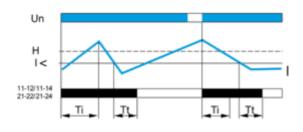
#### **Function Diagrams**

### **Undercurrent Detection**

Without memory ("No Memory" mode)

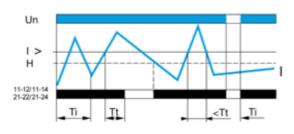


With memory ("Memory" mode)

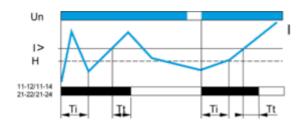


### **Overcurrent Detection**

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. **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.