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

Price*: 177.00 USD

Main

Relay name Relay monitored parameters time delay Switching capacity in VA Minimum switching current Maximum switching current Maximum power consumption in VA Measurement range Utilisation category	Harmony Control Relays Current control relay Current control relay RM35JA Overcurrent or undercurrent detection Adjustable 0.330 s, 0 + 10 % Tt- time delay upon fault Adjustable 120 s, 0 + 10 % Ti- inhibition time delay upon startup	
Product or Component Type Relay name Relay monitored parameters time delay Switching capacity in VA Minimum switching current Maximum switching current Maximum power consumption in VA Measurement range Utilisation category	Current control relay RM35JA Overcurrent or undercurrent detection Adjustable 0.330 s, 0 + 10 % Tt- time delay upon fault Adjustable 120 s, 0 + 10 % Ti- inhibition time delay upon startup	
Relay name Relay monitored parameters time delay Switching capacity in VA Minimum switching current Maximum switching current Maximum power consumption in VA Measurement range Utilisation category	RM35JA Overcurrent or undercurrent detection Adjustable 0.330 s, 0 + 10 % Tt- time delay upon fault Adjustable 120 s, 0 + 10 % Ti- inhibition time delay upon startup	
Relay monitored parameters time delay Switching capacity in VA Minimum switching current Maximum switching current Maximum power consumption in VA Measurement range Utilisation category	Overcurrent or undercurrent detection Adjustable 0.330 s, 0 + 10 % Tt- time delay upon fault Adjustable 120 s, 0 + 10 % Ti- inhibition time delay upon startup	
time delay Switching capacity in VA Minimum switching current Maximum switching current Maximum power consumption in VA Measurement range Utilisation category	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 Minimum switching current Maximum switching current Maximum power consumption in VA Measurement range Utilisation category	Adjustable 120 s, 0 + 10 % Ti- inhibition time delay upon startup	
Minimum switching current Maximum switching current Maximum power consumption in VA Measurement range Utilisation category		
Maximum switching current Maximum power consumption in VA Measurement range Utilisation category	1250 VA	
Maximum power consumption in VA Measurement range Utilisation category	10 mA 5 V DC	
VA Measurement range Utilisation category	5 A AC/DC	
Utilisation category	3.5 VA AC	
	150 mA15 A current AC/DC	
	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	
Contacts type and composition	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	
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	

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

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 conforming to IEC 60664-1	
Insulation resistance	 > 500 MOhm 500 V DC between supply and relay output IEC 60255-5 > 500 MOhm 500 V DC between measurement and relay output IEC 60664-1 > 1 MOhm 500 V DC between supply and measurement IEC 60255-5 > 500 MOhm 500 V DC between supply and relay output IEC 60664-1 > 500 MOhm 500 V DC between measurement and relay output IEC 60255-5 > 1 MOhm 500 V DC between supply and measurement IEC 60664-1 	
[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 ² AWG 20AWG 11) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm ² AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm ² AWG 24AWG 12) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm ² 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	
	1.4 in (35 mm)	
Width	1.4 in (35 mm)	
Width Control Type	1.4 in (35 mm) Without test button	

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	
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	CA	

Packing Units

Unit Type of Package 1PCENumber of Units in Package 11Package 1 Height1.77 in (4.500 cm)Package 1 Width3.15 in (8.000 cm)Package 1 Length3.74 in (9.500 cm)Package 1 Weight4.797 oz (136.000 g)Unit Type of Package 2S03Number of Units in Package 248Package 2 Height11.81 in (30.000 cm)Package 2 Width11.81 in (30.000 cm)Package 2 Width15.75 in (40.000 cm)Package 2 Weight16.074 lb(US) (7.291 kg)		
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 \$03 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 Width 15.75 in (40.000 cm)	Unit Type of Package 1	PCE
Package 1 Width3.15 in (8.000 cm)Package 1 Length3.74 in (9.500 cm)Package 1 Weight4.797 oz (136.000 g)Unit Type of Package 2S03Number of Units in Package 248Package 2 Height11.81 in (30.000 cm)Package 2 Width11.81 in (30.000 cm)Package 2 Length15.75 in (40.000 cm)	Number of Units in Package 1	1
Package 1 Length3.74 in (9.500 cm)Package 1 Weight4.797 oz (136.000 g)Unit Type of Package 2S03Number of Units in Package 248Package 2 Height11.81 in (30.000 cm)Package 2 Width11.81 in (30.000 cm)Package 2 Length15.75 in (40.000 cm)	Package 1 Height	1.77 in (4.500 cm)
Package 1 Weight4.797 oz (136.000 g)Unit Type of Package 2S03Number of Units in Package 248Package 2 Height11.81 in (30.000 cm)Package 2 Width11.81 in (30.000 cm)Package 2 Length15.75 in (40.000 cm)	Package 1 Width	3.15 in (8.000 cm)
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 1 Length	3.74 in (9.500 cm)
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 1 Weight	4.797 oz (136.000 g)
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)	Unit Type of Package 2	S03
Package 2 Width 11.81 in (30.000 cm) Package 2 Length 15.75 in (40.000 cm)	Number of Units in Package 2	48
Package 2 Length 15.75 in (40.000 cm)	Package 2 Height	11.81 in (30.000 cm)
	Package 2 Width	11.81 in (30.000 cm)
Package 2 Weight 16.074 lb(US) (7.291 kg)	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

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

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	5e3fdf99-611b-4d07-ad17-6eba84ab488b
REACh Regulation	REACh Declaration
China RoHS Regulation	China RoHS 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

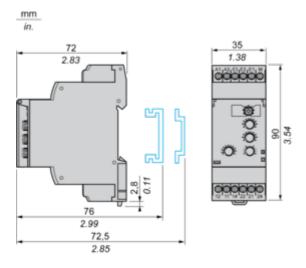
Use Again

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

Dimensions Drawings

Current Control Relays

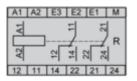
Dimensions and Mounting



Connections and Schema

Current Control Relays

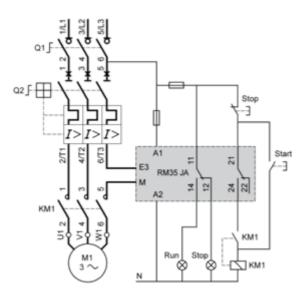
Wiring Diagram



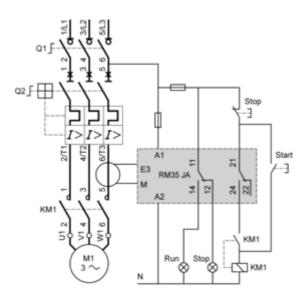
Application Schemes

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

Current measured ≤ 15 A



Current measured > 15 A

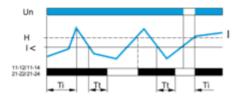


Technical Description

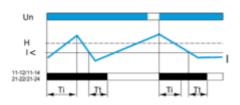
Function Diagrams

Undercurrent Detection

Without memory ("No Memory" mode)

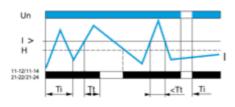


With memory ("Memory" mode)

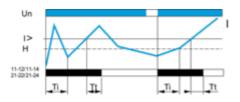


Overcurrent Detection

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.

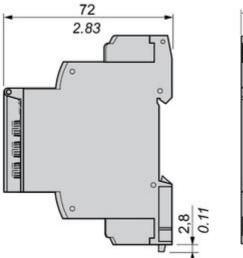
Product data sheet

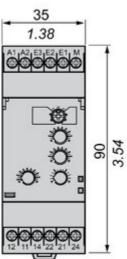
Technical Illustration

Dimensions

mm

in.





Offer Marketing Illustration

Product benefits / Features



Offer Marketing Illustration

Product benefits / Features



Product data sheet

Image of product / Alternate images

Alternative

