

# Productinformatieblad

Specificaties



## Harmony - Stroomrelais - Bereik 0.15-1.5A

RM35JA32MW

EAN Code: 3389119405225

**Prijs: 148,50 EUR**

### Hoofd

|                                       |   |
|---------------------------------------|---|
| range of product                      | Controlerelais harmony  |
| relaistype                            | Stroomcontrolerelais  |
| product or component type             | Stroomcontrolerelais  |
| naam relais                           | RM35JA  |
| door relais gecontroleerde parameters | Overstroom of onderstroom met werkingsbereik  |
| tijdsvertraging                       | Aanpasbaar 0.3...30 s, 0 + 10 % Tt- time delay upon fault<br>Aanpasbaar 1...20 s, 0 + 10 % Ti- inhibition time delay upon startup   |
| schakelcapaciteit in VA               | 1250 VA   |
| minimale schakelstroom                | 10 mA bij 5 V DC  |
| maximale schakelstroom                | 5 A AC/DC   |
| maximaal energieverbruik in VA        | 3,5 VA AC   |
| meetbereik                            | 150 mA...15 A stroom AC/DC  |
| utilisation category                  | AC-12 conform aan IEC 60947-5-1<br>AC-13 conform aan IEC 60947-5-1<br>AC-14 conform aan IEC 60947-5-1<br>AC-15 conform aan IEC 60947-5-1<br>DC-12 conform aan IEC 60947-5-1<br>DC-13 conform aan IEC 60947-5-1<br>DC-14 conform aan IEC 60947-5-1 |
| type en samenstelling contacten       | 2 C/O   |

### Complementair

|                                   |   |
|-----------------------------------|---|
| resettijd                         | 1500 ms tijdvertraging  |
| maximale schakelspanning          | 250 V AC/DC   |
| voedingsspanningsgrenzen          | 20,4...264 V AC/DC  |
| spanningslimieten controlecircuit | - 15 % + 10 % Un  |
| maximaal energieverbruik in W     | 0,6 W DC  |
| frequentie stuurkring             | 40...70 Hz +/- 10 %   |
| weerstand over aansluitklemmen    | 0,005 Ohm bij E3-M aansluitklemmen<br>0,015 Ohm bij E2-M aansluitklemmen<br>0,05 Ohm bij E1-M aansluitklemmen |
| uitgangscontacten                 | 2 G/O   |
| nominale uitgangsstroom           | 5 A   |
| Maximale meetcyclus               | 30 ms meetcyclus als echte rms-waarde   |
| hysteresis                        | 5...50 % van drempelinstelling:   |

De weergegeven prijs is de adviesprijs in euro excl. BTW. Deze kan onderhevig zijn aan korting. Neem contact op met uw lokale distributeur of detailhandel voor de daadwerkelijke prijs

|  |  |
|--|--|
| <b>aanloopvertraging bij opstart</b>       | 0,3 s  |
| <b>meetnauwkeurigheid</b>                  | +10 % van totale waarde  |
| <b>herhalingsnauwkeurigheid</b>            | +/-0,5% voor invoer en meetcircuit<br>+/- 2 % voor uitsteltijd   |
| <b>meetfout</b>                            | 0,05%/°C met temperatuurvariatie<br>1 volt over volledig bereik met spanningsvariatie  |
| <b>polariteit</b>                          | Nee DC   |
| <b>drempel instelling</b>                  | 10...100 %   |
| <b>markering</b>                           | CE : EMC 89/336/EEC<br>CE : 73/23/EEC  |
| <b>overvoltage category</b>                | III conforming to IEC 60664-1  |
| <b>isolatieweerstand</b>                   | > 500 MOhm bij 500 V DC tussen voeding en relaisuitgang conform aan IEC 60255-5<br>> 500 MOhm bij 500 V DC tussen meting en relaisuitgang conform aan IEC 60664-1<br>> 1 MOhm bij 500 V DC tussen voeding en meting conform aan IEC 60255-5<br>> 500 MOhm bij 500 V DC tussen voeding en relaisuitgang conform aan IEC 60664-1<br>> 500 MOhm bij 500 V DC tussen meting en relaisuitgang conform aan IEC 60255-5<br>> 1 MOhm bij 500 V DC tussen voeding en meting conform aan IEC 60664-1 |
| <b>Ui nom. isolatiespanning</b>            | 250 V conform aan IEC 60664-1  |
| <b>bedieningspositie</b>                   | Eender welke positie zondervlies   |
| <b>aansluitingen - aansluitklemmen</b>     | Schroefklemmen, 1 x 0,5...1 x 4 mm <sup>2</sup> (AWG 20...AWG 11) vast zonder kabeluiteinde<br>Schroefklemmen, 2 x 0,5...2 x 2,5 mm <sup>2</sup> (AWG 20...AWG 14) vast zonder kabeluiteinde<br>Schroefklemmen, 1 x 0,2...1 x 2,5 mm <sup>2</sup> (AWG 24...AWG 12) flexibel met kabeluiteinde<br>Schroefklemmen, 2 x 0,2...2 x 1,5 mm <sup>2</sup> (AWG 24...AWG 16) flexibel met kabeluiteinde   |
| <b>aandraaimoment</b>                      | 0,6...1 N.m conform aan IEC 60947-1  |
| <b>materiaal behuizing</b>                 | Zelfblussend-kunststof   |
| <b>lokale signalering</b>                  | LED (groen) for stroom AAN<br>LED (geel) for relais AAN  |
| <b>montagesteun</b>                        | 35 mm symmetrische DIN-rail conform aan IEC 60715  |
| <b>elektrische levensduur</b>              | 100000 cycles  |
| <b>mechanical durability</b>               | 30000000 cycles  |
| <b>werkingsnelheid</b>                     | <= 360 schakelingen/uur volledige belasting  |
| <b>[Un] nominale spanning</b>              | 24...240 V AC/DC 50/60 Hz non self-powered   |
| <b>betrouwbaarheidsgegevens veiligheid</b> | MTTFd = 296.8 jaar<br>B10d = 270000  |
| <b>contact materiaal</b>                   | Cadmiumvrij  |
| <b>width</b>                               | 35 mm  |
| <b>control type</b>                        | Zonder testknop  |
| <b>net weight</b>                          | 0,13 kg  |

## Omgeving

|   |   |
|---|---|
| <b>immuñiteit voor micro-onderbrekingen</b> | 50 ms   |
| <b>elektromagnetische compatibiliteit</b>   | Emissiestandaard voor industriëleomgevingen conforming to IEC 61000-6-4<br>Emmissiestandaard voor residentiële, commerciële en licht industriële omgevingen conforming to IEC 61000-6-3<br>Immuñiteit voor industriële omgevingen conforming to NF EN/IEC 61000-6-2 |
| <b>standards</b>                            | IEC 60255-6   |

|   |  |
|---|--|
| <b>product certifications</b>                 | GL<br>UL<br>GOST<br>C-Tick<br>CSA  |
| <b>ambient air temperature for storage</b>    | -40...70 °C  |
| <b>omgevingsluchttemperatuur voor werking</b> | -20...50 °C  |
| <b>relatieve vochtigheid</b>                  | 95 % bij 55 °C conform aan IEC 60068-2-30  |
| <b>trilling bestendigheid</b>                 | 0,35 mm (f= 5...57,6 Hz) conforming to IEC 60068-2-6<br>1 gn (f= 57,6...150 Hz) conforming to IEC 60255-21-1 |
| <b>schokbestendigheid</b>                     | 15 gn voor 11 ms conform aan IEC 60255-21-1  |
| <b>IP beschermingsgraad</b>                   | IP20 conform aan IEC 60529 (aansluitklemmen)<br>IP30 conform aan IEC 60529 (behuizing)                       |
| <b>pollution degree</b>                       | 3 conform aan IEC 60664-1  |
| <b>diëlektrische testspanning</b>             | 2 kV AC 50 Hz, 1 mn conform aan IEC 60255-5<br>2 kV AC 50 Hz, 1 mn conform aan IEC 60664-1                   |
| <b>niet-verspreidende schokgolf</b>           | 4 kV conform aan IEC 60255-5<br>4 kV conform aan IEC 60664-1<br>4 kV conform aan IEC 61000-4-5               |

## Verpakkingseenheid

|                                     |           |
|-------------------------------------|-----------|
| <b>Unit Type of Package 1</b>       | PCE       |
| <b>Number of Units in Package 1</b> | 1         |
| <b>Package 1 Height</b>             | 4,500 cm  |
| <b>Package 1 Width</b>              | 8,000 cm  |
| <b>Package 1 Length</b>             | 9,500 cm  |
| <b>Package 1 Weight</b>             | 136,000 g |
| <b>Unit Type of Package 2</b>       | S03       |
| <b>Number of Units in Package 2</b> | 48        |
| <b>Package 2 Height</b>             | 30,000 cm |
| <b>Package 2 Width</b>              | 30,000 cm |
| <b>Package 2 Length</b>             | 40,000 cm |
| <b>Package 2 Weight</b>             | 7,291 kg  |

## contractuele waarborg

|                 |           |
|-----------------|-----------|
| <b>Garantie</b> | 18 months |
|-----------------|-----------|

## Environmental Data

Schneider Electric wil tegen 2050 de Net Zero-status hebben bereikt via partnerschappen in de toeleveringsketen, materialen met een lagere impact en circulariteit via onze doorlopende campagne "Use Better, Use Longer, Use Again" om de levensduur van producten en de recycleerbaarheid te verlengen.

[Uitleg van Environmental Data](#) >

[Hoe evalueren we de duurzaamheid van producten?](#) >

### Milieuoetafdruk

|  |    |
|--|----|
| Totale levenscyclus ecologische voetafdruk | 58 |
|--|----|

## Use Better

### Materialen en verpakking

|                                |    |
|--------------------------------|----|
| Pakket met gerecycleerd karton | Ja |
|--------------------------------|----|

|                               |    |
|-------------------------------|----|
| Verpakkingen zonder kunststof | Ja |
|-------------------------------|----|

[EU-richtlijn RoHS](#)

Voldoet pro-actief (Product valt niet onder de EU RoHS juridische scope)

SCIP-nummer

5e3fdf99-611b-4d07-ad17-6eba84ab488b

REACH-regelgeving

[REACH-verklaring](#)

## Use Again

### Herverpakken en herfabriceren

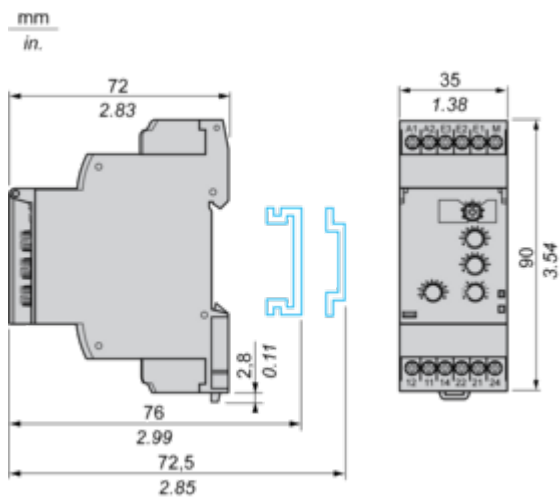
|           |    |
|-----------|----|
| Terugname | No |
|-----------|----|

Dimensions Drawings

Current Control Relays

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Dimensions and Mounting

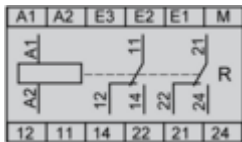


Connections and Schema

Current Control Relays

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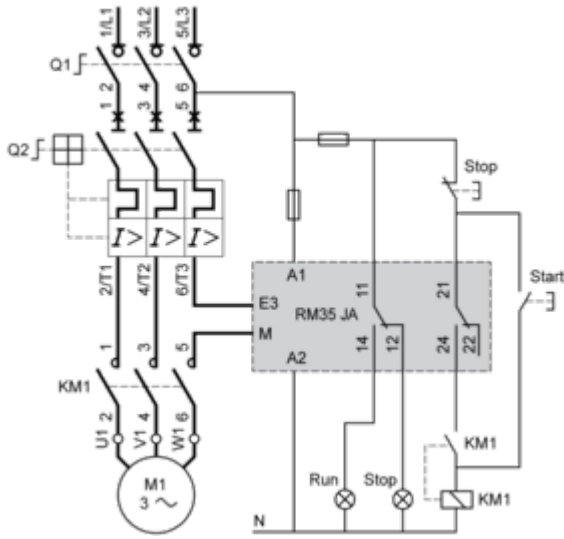
Wiring Diagram



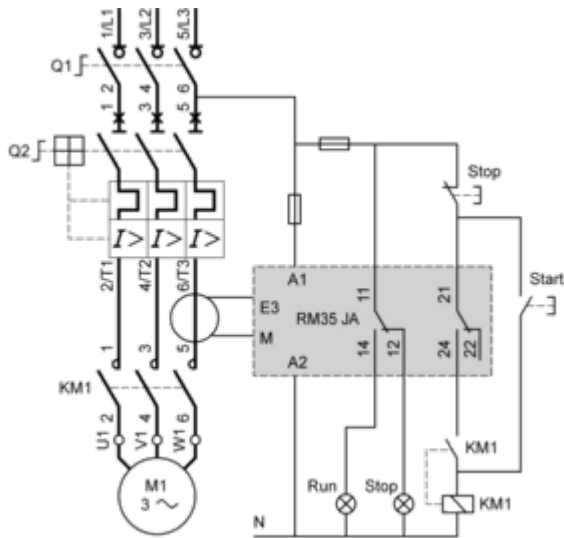
Application Schemes

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

Current measured  $\leq 15$  A



Current measured  $> 15$  A

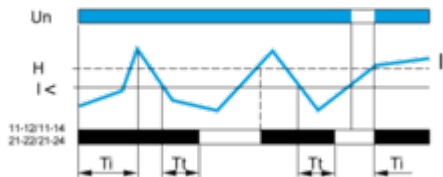


Technical Description

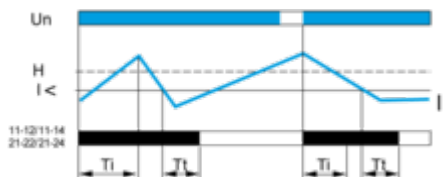
Function Diagrams

Undercurrent Detection

Without memory ("No Memory" mode)

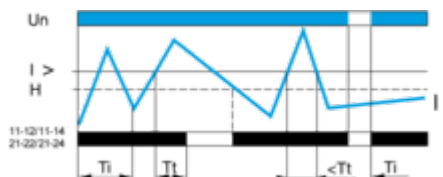


With memory ("Memory" mode)

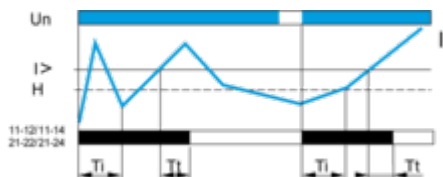


Overcurrent Detection

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.

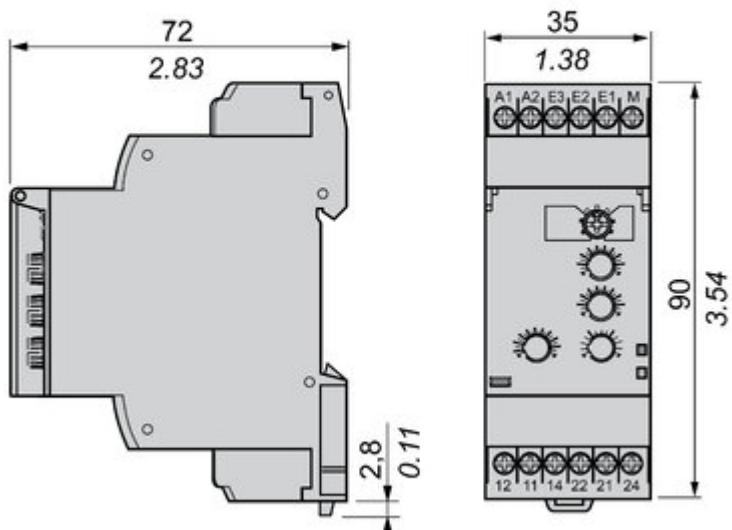
**NOTE:** In "Memory" mode, the relay opens when crossing of the threshold is detected and then stays in that position. The power supply voltage must be switched off to reset the product.

Technical Illustration

Dimensions

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mm  
in.



Offer Marketing Illustration

Product benefits / Features

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### Features

#### Harmony Control Relay

  
Wide monitoring parameters (phase, current, voltage, liquid level, frequency, speed, temperature, and pump control) to meet your application needs.

  
Experience unprecedented accuracy, predictive maintenance, and superior security.



  
True RMS measurement that minimizes the possibility of unexpected trips from highly polluted networks (except RM17TG and RM22TG)

  
Green Premium labelled products, promising compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> product

  
Compatible with a wide range of applications, such as hoisting, packaging, lifts, textile, pumping, and water.

Offer Marketing Illustration

Product benefits / Features

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## Technical Benefits

### Harmony Control Relay

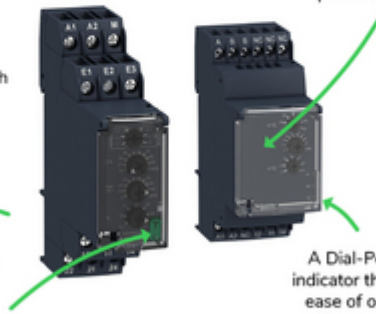
Compliant with IEC 60255-1 standard, and a wide array of product certifications such as UL, CE, CSA, EAC.

Different product width to meet your needs:  
17.5 mm/0.69 in.,  
22.5 mm/0.88 in.,  
35 mm/1.38 in.

Diagnostic button to check downstream circuit immediately, shorten the commission and troubleshooting time

Dust and unintended human intervention avoided thanks to the IP50 lead-sealable settings protection cover.

A Dial-Pointer LED indicator that enhances ease of operation in difficult environments such as dusty or low-light conditions



Offer Marketing Illustration

Product benefits / Features

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## Technical Benefits

### Harmony Control Relay

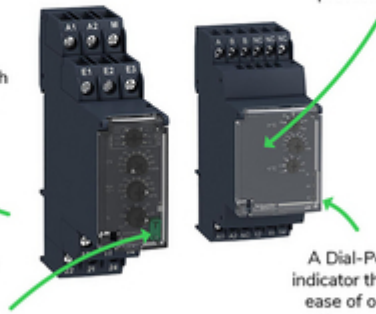
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Offer Marketing Illustration

Product benefits / Features

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## Features

### Harmony Control Relay



**Wide monitoring parameters** (phase, current, voltage, liquid level, frequency, speed, temperature, and pump control) to meet your application needs.

**True RMS measurement** that minimizes the possibility of unexpected trips from highly polluted networks (except RM17TG and RM22TG)

**Experience** unprecedented accuracy, predictive maintenance, and superior security.

**Green Premium** labelled products, promising compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> product

Compatible with a wide range of applications, such as hoisting, packaging, lifts, textile, pumping, and water.

Image of product / Alternate images

Alternative

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