

# Product data sheet

Specifications



multifunction relay, Harmony Timer Relays, 5A, 2CO, 0.02s...300h, on delay, 24...240V AC DC

RE48ATM12MW

**Product availability: Stock - Normally stocked in distribution facility**

## Main

|                               |  |
|-------------------------------|--|
| Range of Product              | Harmony Timer Relays   |
| Electrical connection         | Plug-in sub-base 8   |
| Width                         | 1.9 in (48 mm)   |
| Product or Component Type     | Panel-mounted/plug-in timer relay  |
| Discrete output type          | Relay  |
| Contacts type and composition | 2 C/O timed contacts, AgNi (cadmium free)  |
| Component name                | RE48   |
| Time delay range              | 5...300 h<br>2...120 min<br>0.5...30 h<br>0.2...12 h<br>0.2...12 min<br>0.2...12 s<br>0.5...30 min<br>2...120 h<br>2...120 s<br>0.02...1.2 s<br>0.5...30 s<br>5...300 s<br>0.05...3 s<br>5...300 min |
| [Us] rated supply voltage     | 24...240 V AC/DC 50/60 Hz  |
| Voltage range                 | 0.85...1.1 Us AC<br>0.9...1.1 Us DC  |
| Line Rated Current            | 5 A  |

## Complementary

|                                |   |
|--------------------------------|---|
| Product front plate size       | 48 x 48 mm  |
| Control type                   | Selector switch front panel   |
| Housing material               | Polycarbonate   |
| Repeat accuracy                | +/- 0.2 % of the maximum setting value IEC 61812-1  |
| Temperature drift              | +/- 0.02 %/°C of the maximum setting value IEC 61812-1  |
| Voltage drift                  | +/- 0.2 %/V of the maximum setting value 48...240 V<br>+/- 1 %/V of the maximum setting value 24...48 V |
| Setting accuracy of time delay | +/- 5 % of full scale 25 °C IEC 61812-1<br>+/- 10 % of full scale 25 °C IEC 61812-1                     |
| Time delay type                | Power on-delay - A1- Delay on energization  |
| Minimum pulse duration         | 20 ms   |
| Reset time                     | 25 ms on de-energisation  |

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

|                           |  |
|---------------------------|--|
| Pick up duration          | 55 ms  |
| On-load factor            | 100 %  |
| Power consumption in VA   | 6 VA 240 V   |
| Power consumption in W    | 2 W 240 V  |
| Breaking capacity         | 1250 VA  |
| minimum switching current | 100 mA   |
| Maximum switching current | 5 A  |
| Maximum switching voltage | 250 V AC/DC  |
| Electrical durability     | 100000 cycles  |
| Mechanical durability     | 30000000 cycles  |
| Output voltage            | 240 V 5 A AC-12<br>30 V 2 A DC-13<br>240 V 1.5 A AC-15   |
| Marking                   | CE   |
| Surge withstand           | 1 kV differential mode IEC 61000-4-5 level 3<br>2 kV common mode IEC 61000-4-5 level 3   |
| Mounting Support          | Panel mounted: system supplied with the product<br>Base mounted: socket  |
| Local signalling          | 1 LED (yellow) for output relay state<br>LED indicator (green) for flashing: relay energised timing in progress<br>LED indicator (green) for on steady: relay energised, no timing in progress |
| Function available        | A1- Delay on energization-2 C/O<br>A2- Delay on energization-2 C/O<br>H1-Pulse-on energization-2 C/O<br>H2-Pulse-on energization-2 C/O   |
| Control Type              | Without test button  |
| Net Weight                | 0.31 lb(US) (0.14 kg)  |
| Shape of pin              | Cylindrical  |
| Number of functions       | 1  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Humidity drift                        | +/- 0.05 %/%RH of the maximum setting value IEC 61812-1  |
| Immunity to microbreaks               | 5 ms   |
| Dielectric strength                   | 2 kV 1 mA/1 minute IEC 61812-1   |
| Protection against electric shocks    | 4 kV class III IEC 60664-1<br>4 kV class III IEC 61812-1   |
| Standards                             | 73/23/EEC<br>93/68/EEC<br>EN 50082-1/2<br>89/336/EEC<br>EN 50081-1/2<br>IEC 61812-1<br>IEC 60669-2-3 |
| Product Certifications                | UL<br>cULus<br>C-tick<br>CSA   |
| Ambient Air Temperature for Storage   | -40...158 °F (-40...70 °C)   |
| Ambient Air Temperature for Operation | -4...122 °F (-20...50 °C)  |

|  |  |
|--|--|
| <b>IP degree of protection</b>               | IP40 IEC 60529 housing)<br>IP50 IEC 60529 front face)                                    |
| <b>Vibration resistance</b>                  | 0.35 mm (f= 10...55 Hz) conforming to IEC 60068-2-6                                      |
| <b>Relative Humidity</b>                     | 93 % without condensation IEC 60068-2-3  |
| <b>Resistance to electrostatic discharge</b> | 6 kV in contact IEC 61000-4-2 level 3<br>8 kV in air IEC 61000-4-2 level 3               |
| <b>Resistance to electromagnetic fields</b>  | 9.1 V/m (10 V/m) 26 MHz to 1 GHz IEC 61000-4-3 level 3                                   |
| <b>Resistance to fast transients</b>         | 2 kV IEC 61000-4-4 level 3 direct)<br>4 kV IEC 61000-4-4 level 4 direct)                 |
| <b>Immunity to radioelectric fields</b>      | 10 V 0.15...80 MHz)IEC 61000-4-6 level 3   |
| <b>Immunity to voltage dips</b>              | 30 % / 10 ms IEC 61000-4-11<br>95 % / 5 s IEC 61000-4-11<br>60 % / 100 ms IEC 61000-4-11 |
| <b>Disturbance radiated/conducted</b>        | Class B 0.15...30 MHz EN 55022 (EN 55011 group 1)  |

## Ordering and shipping details

|                          |               |
|--------------------------|---------------|
| <b>Category</b>          | US10CP222370  |
| <b>Discount Schedule</b> | 0CP2          |
| <b>GTIN</b>              | 3389110649727 |
| <b>Returnability</b>     | Yes           |
| <b>Country of origin</b> | ID            |

## Packing Units

|                                     |                         |
|-------------------------------------|-------------------------|
| <b>Unit Type of Package 1</b>       | PCE                     |
| <b>Nbr. of units in pkg.</b>        | 1                       |
| <b>Package 1 Height</b>             | 2.244 in (5.700 cm)     |
| <b>Package 1 Width</b>              | 4.134 in (10.500 cm)    |
| <b>Package 1 Length</b>             | 2.441 in (6.200 cm)     |
| <b>Package weight(Lbs)</b>          | 4.444 oz (126.000 g)    |
| <b>Unit Type of Package 2</b>       | S02                     |
| <b>Number of Units in Package 2</b> | 30                      |
| <b>Package 2 Height</b>             | 5.906 in (15.000 cm)    |
| <b>Package 2 Width</b>              | 11.811 in (30.000 cm)   |
| <b>Package 2 Length</b>             | 15.748 in (40.000 cm)   |
| <b>Package 2 Weight</b>             | 9.374 lb(US) (4.252 kg) |

## Contractual warranty

|                             |    |
|-----------------------------|----|
| <b>Warranty (in months)</b> | 18 |
|-----------------------------|----|



## Environmental 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 >](#)



### Environmental footprint

|  |   |
|--|---|
| Total lifecycle Carbon footprint                       | 17 kg CO2 eq.                                 |
| Environmental Disclosure                               | <a href="#">Product Environmental Profile</a> |
| Carbon footprint of the manufacturing phase [A1 to A3] | 2 kg CO2 eq.                                  |
| Carbon footprint of the distribution phase [A4]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the installation phase [A5]        | 0 kg CO2 eq.                                  |
| Carbon footprint of the use phase [B2, B3, B4, B6]     | 15 kg CO2 eq.                                 |
| Carbon footprint of the end-of-life phase [C1 to C4]   | 0.3 kg CO2 eq.                                |

## Use Better



### Materials and Substances

|  |   |
|--|---|
| Packaging made with recycled cardboard | Yes   |
| Packaging without single use plastic   | Yes   |
| SCIP Number                            | Eacae435-a913-4cb7-91f9-1611e08cac07  |
| California proposition 65              | <b>WARNING:</b> This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

## Use Longer



### Lifetime extension

|        |    |
|--------|----|
| Repair | No |
|--------|----|

## Use Again



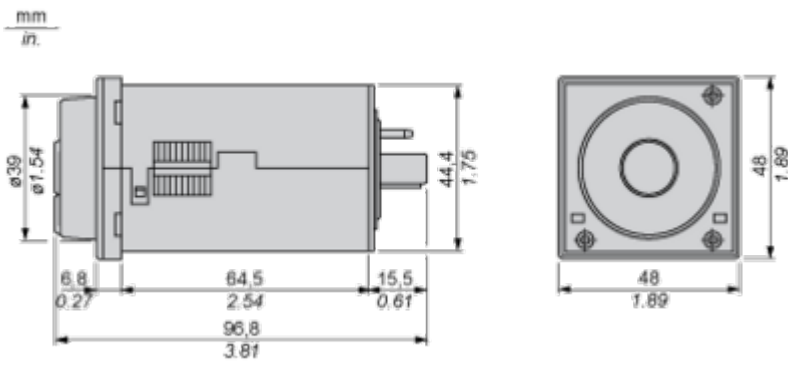
### Repack and remanufacture

|                               |   |
|-------------------------------|---|
| Recyclability potential, in % | 25                                      |
| Circularity Profile           | <a href="#">End of Life Information</a> |
| Take-back                     | No                                      |

Dimensions Drawings

Width 48 mm

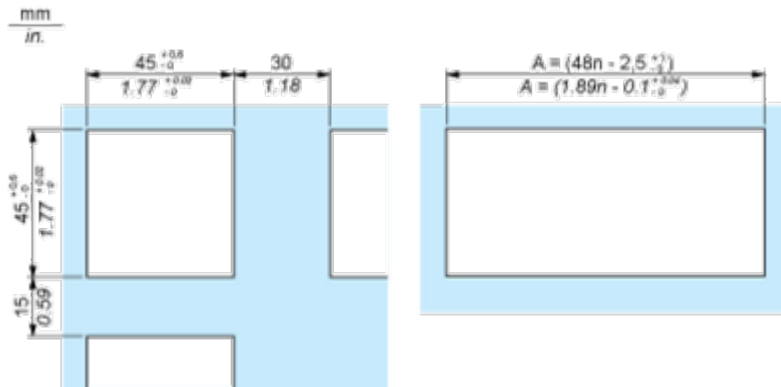
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Mounting and Clearance

Panel Cut-Out and Mounting

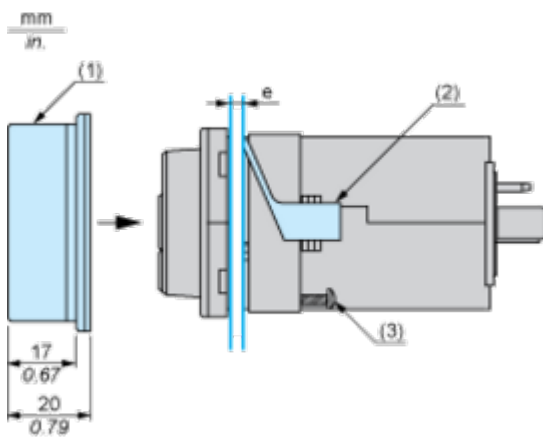
Panel Cut-Out



n Number of devices mounted side-by-side

Mounting

Cover positioning and mounting



e Panel thickness

1 Protective cover

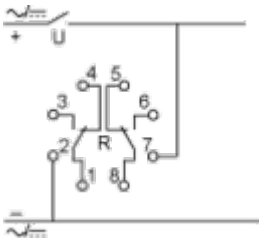
2 Panel mounting frame

3 Locating screw

Connections and Schema

Wiring Diagram

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Technical Description

Function A : Power on Delay Relay

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Description

The timing period T begins on energisation. After timing, the output closes. The second output is instantaneous.



**Legend**

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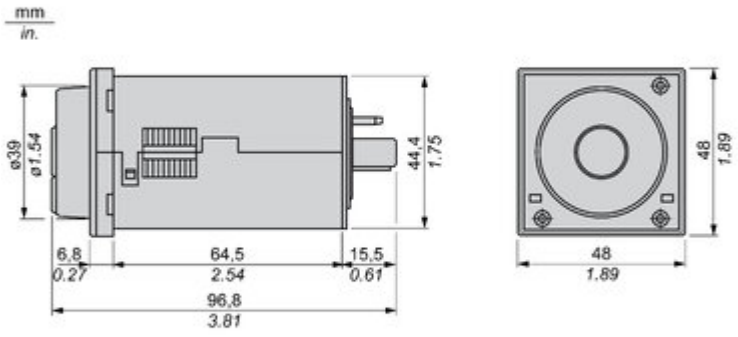
-  Relay de-energised
-  Relay energised
-  Output open
-  Output closed

|          |  |
|----------|--|
| C        | Control contact  |
| G        | Gate   |
| R        | Relay or solid state output  |
| R1/R2    | 2 timed outputs  |
| R2 inst. | The second output is instantaneous if the right position is selected |
| T        | Timing period  |
| Ta -     | Adjustable On-delay  |
| Tr -     | Adjustable Off-delay   |
| U        | Supply   |

Technical Illustration

Dimensions

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Offer Marketing Illustration

Product benefits / Features

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## Technical Benefits

### Harmony Timer Relay

Flexible choice of screw or spring connection terminals for wiring.

One product reference covering 28 timing functions, 2 outputs, and a wide range of supply voltage 24...240 V AC/DC.

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



Different mounting style to meet your preference:  
DIN rail mount with product width; 17.5 mm/0.69 in.  
22.5 mm/0.88 in.  
Plug in mounting with socket

Offer Marketing Illustration

Product benefits / Features

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### Features

#### Harmony Timer Relay

- 

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

Compatible with a wide range of applications including machines, buildings, water segments, and HVAC.
- 

Wide range of time delay for adjustment: from 0.01 s to 999 hrs.
- 

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

Unprecedented accuracy, predictive maintenance, and superior security.

Image of product in real life situation

