

# Product datasheet

Specifications



Harmony. Modular timing relay. 5 A. 2 CO. 0.02 s...300 h. on-delay. 24...240 V AC/DC

RE48ATM12MW

Price: 2,792.45 ZAR

## Main

|                               |                                                                                                                                                                                                      |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range Of Product              | Harmony Timer Relays                                                                                                                                                                                 |
| Product Or Component Type     | Panel-mounted/plug-in timer relay                                                                                                                                                                    |
| Electrical Connection         | Plug-in sub-base 8 pin(s)                                                                                                                                                                            |
| Width                         | 48 mm                                                                                                                                                                                                |
| Discrete Output Type          | Relay                                                                                                                                                                                                |
| Contacts Type And Composition | 2 C/O timed contacts, AgNi (cadmium free)                                                                                                                                                            |
| Component Name                | RE48                                                                                                                                                                                                 |
| Time Delay Type               | Power on-delay                                                                                                                                                                                       |
| 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                                                                                                                                                                  |
| [In] Rated Current            | 5 A                                                                                                                                                                                                  |

## Complementary

|                                |                                                                                                               |
|--------------------------------|---------------------------------------------------------------------------------------------------------------|
| Product Front Plate Size       | 48 x 48 mm                                                                                                    |
| Control Type                   | Selector switch front panel                                                                                   |
| Housing Material               | Self-extinguishing                                                                                            |
| Repeat Accuracy                | +/- 0.2 % of the maximum setting value conforming to IEC 61812-1                                              |
| Temperature Drift              | +/- 0.02 %/°C of the maximum setting value conforming to IEC 61812-1                                          |
| Voltage Drift                  | +/- 0.2 %/V of the maximum setting value at 48...240 V<br>+/- 1 %/V of the maximum setting value at 24...48 V |
| Setting Accuracy Of Time Delay | +/- 5 % of full scale at 25 °C conforming to IEC 61812-1                                                      |
| Minimum Pulse Duration         | 20 ms                                                                                                         |
| Reset Time                     | 25 ms on de-energisation                                                                                      |
| Pick Up Duration               | 55 ms                                                                                                         |

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

|                           |                                                                                                                                                                                                |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| On-Load Factor            | 100 %                                                                                                                                                                                          |
| Power Consumption In Va   | 1.1 VA at 24 V<br>4.8 VA at 240 V                                                                                                                                                              |
| Power Consumption In W    | 0.5 W at 24 V<br>1.7 W at 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 at 5 A AC-12<br>30 V at 2 A DC-13<br>240 V at 1.5 A AC-15                                                                                                                                |
| Marking                   | CE                                                                                                                                                                                             |
| Surge Withstand           | 1 kV differential mode conforming to IEC 61000-4-5 level 3<br>2 kV common mode conforming to 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                | 0.14 kg                                                                                                                                                                                        |
| Shape Of Pin              | Cylindrical                                                                                                                                                                                    |
| Number Of Functions       | 1                                                                                                                                                                                              |

## Environment

|                                       |                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Humidity Drift                        | +/- 0.05 %/%RH of the maximum setting value conforming to IEC 61812-1                                |
| Immunity To Microbreaks               | 10 ms                                                                                                |
| Dielectric Strength                   | 1 kV 1 mA/1 minute conforming to IEC 61812-1                                                         |
| Protection Against Electric Shocks    | 4 kV class III conforming to IEC 60664-1<br>4 kV class III conforming to 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...70 °C                                                                                          |
| Ambient Air Temperature For Operation | -20...50 °C                                                                                          |

|                                       |                                                                                                                                    |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Ip Degree Of Protection               | IP40 (housing) conforming to IEC 60529<br>IP50 (front face) conforming to IEC 60529                                                |
| Vibration Resistance                  | 0.35 mm (f= 10...55 Hz) conforming to IEC 60068-2-6                                                                                |
| Relative Humidity                     | 93 % without condensation conforming to IEC 60068-2-3                                                                              |
| Resistance To Electrostatic Discharge | 6 kV in contact conforming to IEC 61000-4-2 level 3<br>8 kV in air conforming to IEC 61000-4-2 level 3                             |
| Resistance To Electromagnetic Fields  | 10 V/m 26 MHz to 1 GHz conforming to IEC 61000-4-3 level 3                                                                         |
| Resistance To Fast Transients         | 2 kV (capacitive connecting clip) conforming to IEC 61000-4-4 level 4<br>4 kV (direct) conforming to IEC 61000-4-4 level 4         |
| Immunity To Radioelectric Fields      | 10 V (0.15...80 MHz) conforming to IEC 61000-4-6 level 3                                                                           |
| Immunity To Voltage Dips              | 30 % / 10 ms conforming to IEC 61000-4-11<br>60 % / 100 ms conforming to IEC 61000-4-11<br>95 % / 5 s conforming to IEC 61000-4-11 |
| Disturbance Radiated/Conducted        | Class B 0.15...30 MHz conforming to EN 55022 (EN 55011 group 1)                                                                    |

## Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type Of Package 1       | PCE      |
| Number Of Units In Package 1 | 1        |
| Package 1 Height             | 5.7 cm   |
| Package 1 Width              | 10.5 cm  |
| Package 1 Length             | 6.2 cm   |
| Package 1 Weight             | 126 g    |
| Unit Type Of Package 2       | S02      |
| Number Of Units In Package 2 | 30       |
| Package 2 Height             | 15 cm    |
| Package 2 Width              | 30 cm    |
| Package 2 Length             | 40 cm    |
| Package 2 Weight             | 4.252 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class 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.

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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

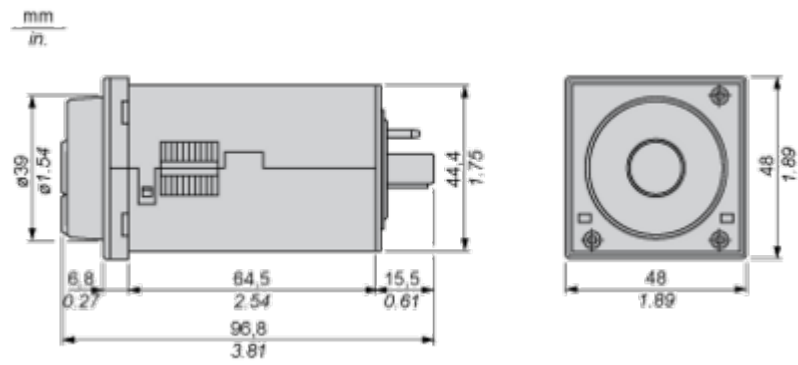
[Product Environmental Profile](#)

Circularity Profile

[End of Life Information](#)

Dimensions Drawings

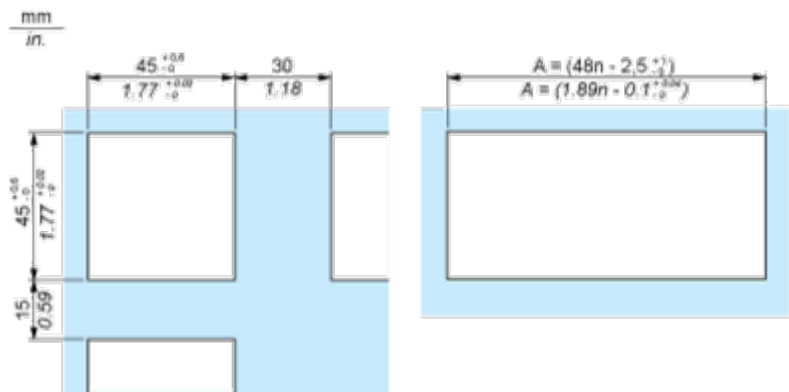
Width 48 mm



Mounting and Clearance

Panel Cut-Out and Mounting

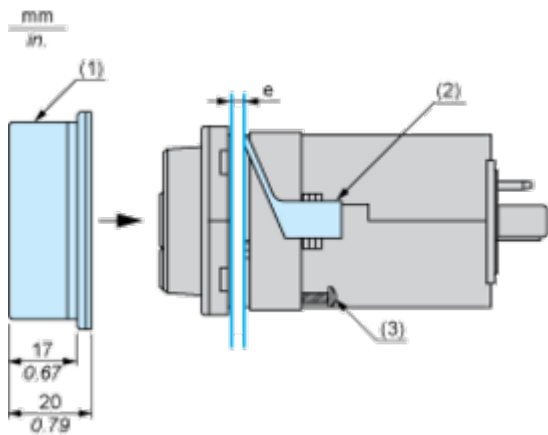
Panel Cut-Out



n Number of devices mounted side-by-side

Mounting

Cover positioning and mounting

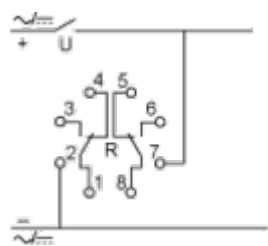


- e Panel thickness
- 1 Protective cover
- 2 Panel mounting frame
- 3 Locating screw

Connections and Schema

Wiring Diagram

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Technical Description

Function A : Power on Delay Relay

Description

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



Legend

|                                                                                   |                    |
|-----------------------------------------------------------------------------------|--------------------|
|  | 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                                                               |