

# Fișă tehnică produs

Specificatii



## Releu Temporizare cu 2 Functii, 0,02 S, 300 Ore, 24, 240 V C.A., 2 Oc

RE48AML12MW

### Principale

|                                      |                                                                                                                                                                                                      |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| gama de produse                      | Harmony Timer Relays                                                                                                                                                                                 |
| conexiune electrica                  | Bază cu conector deconectabil 11 pini                                                                                                                                                                |
| latime                               | 48 mm                                                                                                                                                                                                |
| Tip produs sau componenta            | Panel-mounted/plug-in timer relay                                                                                                                                                                    |
| tip de iesire discreta               | Releu                                                                                                                                                                                                |
| tip si compozitie contacte           | 2 C/O contacte temporizate, AgNi (fara cadmiu)                                                                                                                                                       |
| nume componenta                      | RE48A                                                                                                                                                                                                |
| intervalul de intarziere             | 0.5...30 s<br>5...300 s<br>0.2...12 min<br>0.5...30 H<br>2...120 s<br>0.05...3 s<br>0.2...12 s<br>0.02...1.2 s<br>2...120 min<br>5...300 min<br>0.5...30 min<br>5...300 H<br>2...120 H<br>0.2...12 H |
| [Us] tensiune nominala de alimentare | 24...240 V c.a./c.c. 50/60 Hz                                                                                                                                                                        |
| interval de tensiune                 | 0,85...1,1 Us c.a.<br>0,9...1,1 Us c.c.                                                                                                                                                              |
| [In] curent nominal                  | 5 A                                                                                                                                                                                                  |

### Suplimentare

|                                  |                                                                                                                                                                                                                                                  |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dimensiune placa frontala produs | 48 x 48 mm                                                                                                                                                                                                                                       |
| tip de control                   | Selector panou frontal                                                                                                                                                                                                                           |
| material carcasa                 | Polycarbonat                                                                                                                                                                                                                                     |
| precizie de repetare             | +/- 0.2 % din valoarea maximă setată conformitate cu IEC 61812-1                                                                                                                                                                                 |
| abatere a temperaturii           | +/- 0.02 %/°C din valoarea maximă setată conformitate cu IEC 61812-1                                                                                                                                                                             |
| abatere a tensiunii              | +/- 0.2 %/V din valoarea maximă setată la 48...240 V<br>+/- 1 %/V din valoarea maximă setată la 24...48 V                                                                                                                                        |
| setarea preciziei temporizarii   | +/- 5 % din scala completă la 25 °C conformitate cu IEC 61812-1<br>+/- 10 % din capatul scarii la 25 °C conformitate cu IEC 61812-1                                                                                                              |
| Time delay type                  | Power on-delay - A- Power on-delay relay<br>Interval - B- Single interval relay w/ control signal<br>Temporizare la revenire - C- Off-delay relay w/ control signal<br>Symmetrical flashing - Di- Symmetrical flashing relay (starting pulse-on) |
| durata minima a impulsului       | 20 ms                                                                                                                                                                                                                                            |

Declinare de responsabilitate: Această documentație nu se substituie și nu trebuie utilizată pentru stabilirea adecvării sau fiabilității acestor produse pentru aplicații utilizator

|                                        |                                                                                                                                                                                                                             |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| resetare timp                          | 25 ms la întreruperea alimentării                                                                                                                                                                                           |
| durata varfului                        | 55 ms                                                                                                                                                                                                                       |
| factor de sarcina                      | 100 %                                                                                                                                                                                                                       |
| puterea consumata in VA                | 6 VA la 240 V                                                                                                                                                                                                               |
| puterea consumata in W                 | 2 W la 240 V                                                                                                                                                                                                                |
| capacitate de rupere                   | 1250 VA                                                                                                                                                                                                                     |
| curentul minim comutat                 | 100 mA                                                                                                                                                                                                                      |
| curent maxim comutat                   | 5 A                                                                                                                                                                                                                         |
| tensiunea maxima de comutatie          | 250 V c.a./c.c.                                                                                                                                                                                                             |
| durabilitate electrica                 | 100000 cic                                                                                                                                                                                                                  |
| durabilitate mecanica                  | 30000000 cic                                                                                                                                                                                                                |
| tensiune de iesire                     | 240 V la 5 A AC-12<br>30 V la 2 A DC-13<br>240 V la 1,5 A AC-15                                                                                                                                                             |
| marcaj                                 | CE                                                                                                                                                                                                                          |
| incercare la supratensiuni tranzitorii | 1 kV mod diferențial conformitate cu IEC 61000-4-5 nivel 3<br>2 kV mod comun conformitate cu IEC 61000-4-5 nivel 3                                                                                                          |
| suport de montare                      | Cu montare pe baza: priza<br>Montare pe panou: sistem prevăzut cu acest produs                                                                                                                                              |
| semnalizare locala                     | 1 LED (galben) for stare releu de iesire<br>Indicator cu LED (verde) for intermitent: temporizare în curs releu alimentat<br>Indicator cu LED (verde) for la funcționare stabilă: releu alimentat, fără temporizare în curs |
| functie disponibila                    | A- Power on-delay relay-2 C/O<br>B- Single interval relay w/ control signal-2 C/O<br>C- Off-delay relay w/ control signal-2 C/O<br>Di- Symmetrical flashing relay (starting pulse-on)-2 C/O                                 |
| tip de control                         | Without test button                                                                                                                                                                                                         |
| greutate produs                        | 0,14 kg                                                                                                                                                                                                                     |
| forma a pinului                        | Cilindric                                                                                                                                                                                                                   |
| Number of functions                    | 4                                                                                                                                                                                                                           |

## Mediu

|                                         |                                                                                                      |
|-----------------------------------------|------------------------------------------------------------------------------------------------------|
| abaterea de umiditate                   | +/- 0.05 %/%RH din valoarea maximă setată conformitate cu IEC 61812-1                                |
| imunitate la microintreruperi           | 5 ms                                                                                                 |
| rigiditate dielectrica                  | 2 kV 1 mA/1 minut conformitate cu IEC 61812-1                                                        |
| protectia la electrocutare              | 4 kV clasa III conformitate cu SR EN 60664-1<br>4 kV clasa III conformitate cu IEC 61812-1           |
| standarde                               | IEC 61812-1<br>EN 50081-1/2<br>93/68/EEC<br>89/336/EEC<br>EN 50082-1/2<br>IEC 60669-2-3<br>73/23/EEC |
| certificari produs                      | UL<br>cULus<br>CSA<br>C-Tick                                                                         |
| temperatura ambietala pentru depozitare | -40...70 °C                                                                                          |

|                                         |                                                                                                            |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------|
| temperatura ambientala de functionare   | -20...50 °C                                                                                                |
| grad de protectie IP                    | IP40 conformitate cu SR EN 60529 (carcasă)<br>IP50 conformitate cu SR EN 60529 (fata frontala)             |
| rezistenta la vibratii                  | 0.35 mm (f= 10...55 Hz) conforming to IEC 60068-2-6                                                        |
| umiditate relativa                      | 93 % fără condensare conformitate cu IEC 60068-2-3                                                         |
| rezistenta la descarcari electrostatice | 6 kV în contact conformitate cu IEC 61000-4-2 nivel 3<br>8 kV în aer conformitate cu IEC 61000-4-2 nivel 3 |
| rezistenta la campuri electromagnetice  | 10 V/m 26 MHz to 1 GHz conformitate cu IEC 61000-4-3 nivel 3                                               |
| rezistenta la tranzienti rapizi         | 2 kV conformitate cu IEC 61000-4-4 nivel 3 (direct)                                                        |
| imunitate la campuri radioelectrice     | 10 V (0.15 - 80 MHz) conformitate cu IEC 61000-4-6 level 3                                                 |
| imuni la caderi de tensiune             | 30 % / 10 ms conformitate cu IEC 61000-4-11                                                                |
| perturbatie radiata/condusa             | Clasa B 0.15...30 MHz conformitate cu EN 55022 (EN 55011 grup 1)                                           |

## Unitati de ambalare

|                                                      |           |
|------------------------------------------------------|-----------|
| Unitate de masura pentru prima forma de impachetare  | PCE       |
| Număr de produse în pachet                           | 1         |
| Inaltime prima forma de impachetare                  | 5,700 cm  |
| Latime prima forma de impachetare                    | 6,200 cm  |
| Lungime prima forma de impachetare                   | 10,500 cm |
| Greutate colet(Lbs)                                  | 130,000 g |
| Unitate de masura pentru a doua forma de impachetare | S02       |
| Numar unitati in a doua forma de impachetare         | 30        |
| Inaltime a doua forma de impachetare                 | 15,000 cm |
| Latime a doua forma de impachetare                   | 30,000 cm |
| Lungime a doua forma de impachetare                  | 40,000 cm |
| Greutate a doua forma de impachetare                 | 4,350 kg  |

## Garanție contractuală

|                    |    |
|--------------------|----|
| Garantie (in luni) | 18 |
|--------------------|----|



## Environmental Data

Schneider Electric isi propune sa atinga nivelul Net Zero pana in 2050 prin parteneriate la nivelul lantului de aprovizionare, materiale cu impact mai redus si circularitate, prin campania „Use Better, Use Longer, Use Again” pentru a extinde durata de viata a produselor si reciclabilitatea.

[Environmental Data explicate >](#)

[Cum evaluam sustenabilitatea produselor >](#)



### Amprenta de mediu

|                                                          |                                                  |
|----------------------------------------------------------|--------------------------------------------------|
| Amprenta de carbon totala pe durata de viata             | 37 kg CO2 eq.                                    |
| Amprenta de carbon a fazei de fabricație [A1–A3]         | 2 kg CO2 eq.                                     |
| Amprenta de carbon a fazei de distribuție [A4]           | 0 kg CO2 eq.                                     |
| Amprenta de carbon a fazei de instalare [A5]             | 0 kg CO2 eq.                                     |
| Amprenta de carbon a fazei de utilizare [B2, B3, B4, B6] | 35 kg CO2 eq.                                    |
| Amprenta de carbon a fazei de sfârșit de viață [C1–C4]   | 0.3 kg CO2 eq.                                   |
| Raport de mediu                                          | <a href="#">Profilul ambiental al produsului</a> |

## Use Better



### Materiale si ambalare

|                             |                                                   |
|-----------------------------|---------------------------------------------------|
| Pachet cu carton reciclabil | Da                                                |
| Ambalaj fara plastic        | Da                                                |
| Numar SCIP                  | Eacae435-a913-4cb7-91f9-1611e08cac07              |
| Directiva RoHS a UE         | <a href="#">Conform Prin Scutire</a>              |
| Regulamentul REACH          | <a href="#">Referința conține SVHC peste prag</a> |

## Use Longer



### Prelungire durata de viata

|          |    |
|----------|----|
| Reparare | Nu |
|----------|----|

## Use Again

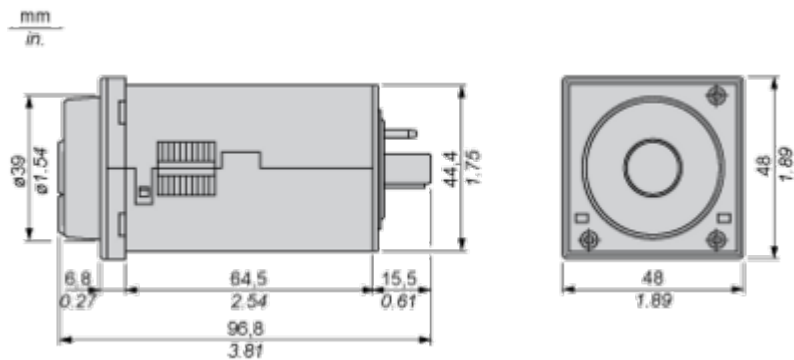


### Reambalare si refabricare

|                                        |                                                               |
|----------------------------------------|---------------------------------------------------------------|
| Potentialul de reciclabilitate, in %   | 25                                                            |
| Profil circularitate                   | <a href="#">Informatii privind sfarsitul duratei de viata</a> |
| Preluare la sfarsitul duratei de viata | Da                                                            |

Dimensions Drawings

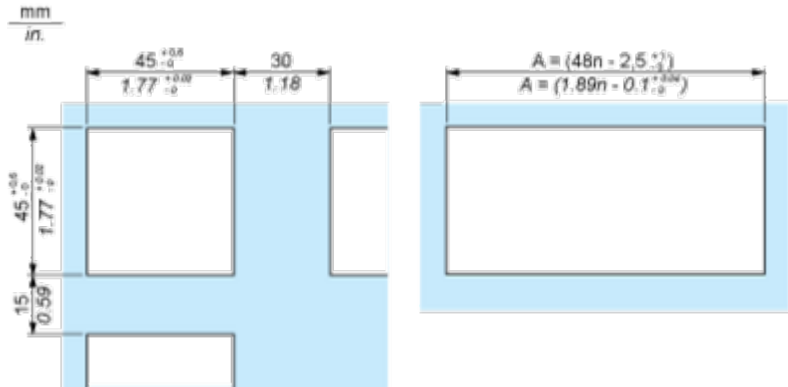
Width 48 mm



Mounting and Clearance

Panel Cut-Out and Mounting

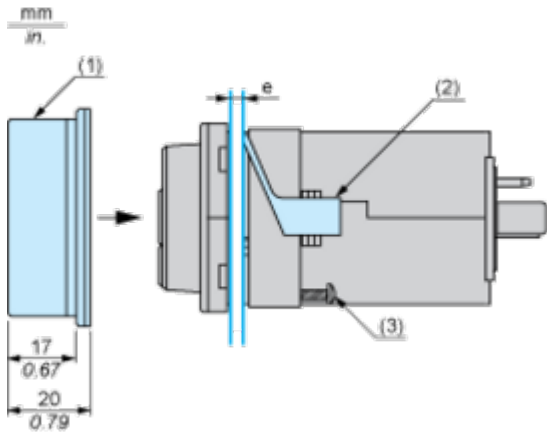
Panel Cut-Out



n Number of devices mounted side-by-side

Mounting

Cover positioning and mounting

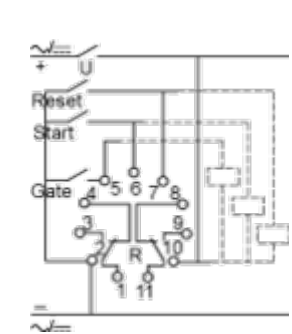


- e Panel thickness
- 1 Protective cover
- 2 Panel mounting frame
- 3 Locating screw

Connections and Schema

Wiring Diagram

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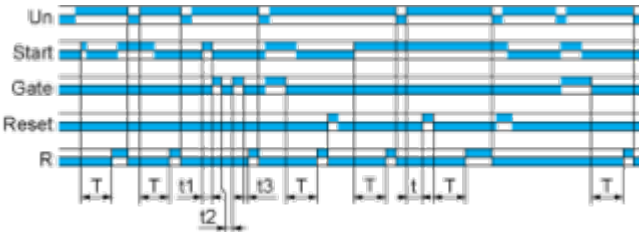


Technical Description

Function A : Power on Delay Relay

Description

The timing period T begins on energisation. After timing, the output R closes.



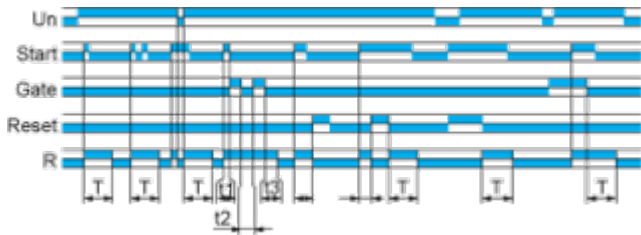
$T = t1 + t2 + t3$



Function B : Interval Relay with Control Signal

Description

After power-up, pulsing or maintaining control contact C starts the timing T. The output R closes for the duration of the timing period T then reverts to its initial state.

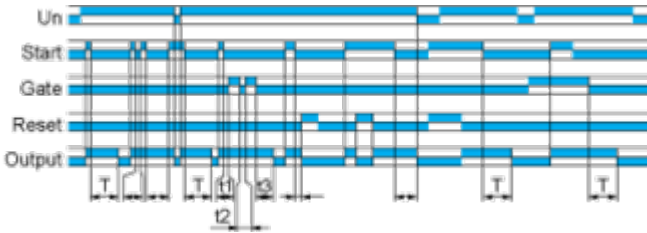


$T = t1 + t2 + t3$

Function C : Off-Delay Relay with Control Signal

Description

After power-up and closing of the control contact, the output closes. When control contact re-opens, timing T starts. At the end of the timing period, the output reverts to their initial state.

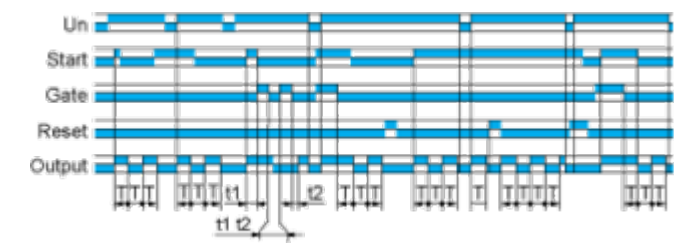


$T = t1 + t2 + t3$

Function Di : Symmetrical Flasher Relay (Starting Pulse On)

Description

Repetitive cycle with two timing periods T of equal duration, with output changing state at the end of each timing period T.



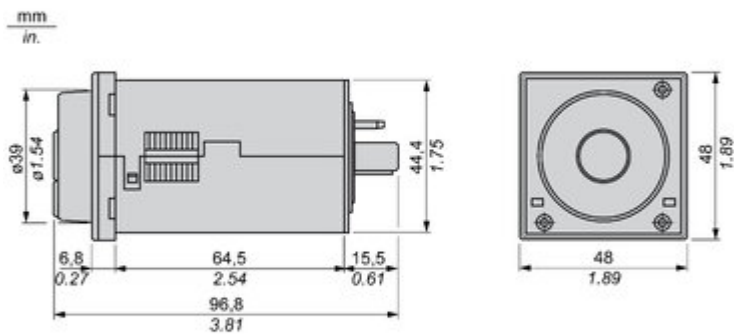
Legend

-  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                                                               |

Technical Illustration

Dimensions



Offer Marketing Illustration

Product benefits / Features

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

### 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

