

# RE48ACV12MW

asymmetrical flashing relay - 0.02 s..300 h - 24..240 V AC - 2 OC



## Main

|                               |  |
|-------------------------------|--|
| Range of product              | Zelio Time   |
| Product or component type     | Electronic timing relay  |
| Electrical connection         | 11 pin plug-in sub-base  |
| Discrete output type          | Relay  |
| Contacts type and composition | 2 C/O timed contacts AgNi (cadmium free)   |
| Component name                | RE48A  |
| Time delay type               | L<br>Li  |
| Time delay range              | 0.02...1.2 s<br>0.05...3 s<br>0.2...12 h<br>0.2...12 min<br>0.2...12 s<br>0.5...30 h<br>0.5...30 min<br>0.5...30 s<br>2...120 h<br>2...120 min<br>2...120 s<br>5...300 h<br>5...300 min<br>5...300 s |
| [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 on 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   |
| 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   |

The information provided in this documentation contains general descriptions and/or technical characteristics of the products contained herein. 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. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

|                  |   |
|------------------|---|
| 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 | Base mounted: socket<br>Panel mounted: system supplied with the product   |
| Local signalling | 1 LED yellow output relay state<br>1 LED yellow output relay state<br>LED indicator green flashing: relay energised timing in progress<br>LED indicator green on steady: relay energised, no timing in progress |
| Product weight   | 0.14 kg   |

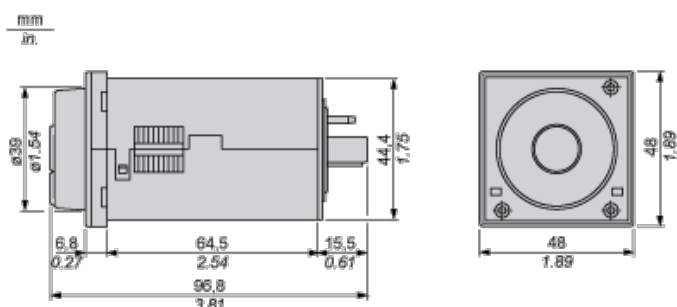
## Environment

|                                       |   |
|---------------------------------------|---|
| humidity drift                        | +/- 0.05 %/%RH of the maximum setting value conforming to IEC 61812-1   |
| immunity to microbreaks               | < 10 ms   |
| dielectric strength                   | 1 kV at 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>89/336/EEC<br>93/68/EEC<br>EN 50081-1/2<br>EN 50082-1/2<br>IEC 60669-2-3<br>IEC 61812-1  |
| product certifications                | CSA<br>C-Tick<br>CULus<br>GL<br>UL  |
| 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 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 at in contact conforming to EN/IEC 61000-4-2 level 3<br>8 kV at in air conforming to EN/IEC 61000-4-2 level 3                                |
| resistance to electromagnetic fields  | 10 V/m 26 MHz to 1 GHz conforming to EN/IEC 61000-4-3 level 3   |
| resistance to fast transients         | 2 kV capacitive connecting clip conforming to EN/IEC 61000-4-4 level 4<br>4 kV direct conforming to EN/IEC 61000-4-4 level 4                      |
| immunity to radioelectric fields      | 10 V at 0.15...80 MHz conforming to EN/IEC 61000-4-6 level 3  |
| immunity to voltage dips              | 30 % for 10 ms conforming to EN/IEC 61000-4-11<br>60 % for 100 ms conforming to EN/IEC 61000-4-11<br>95 % for 5 s conforming to EN/IEC 61000-4-11 |
| disturbance radiated/conducted        | Class B at 0.15...30 MHz conforming to EN 55022 (EN 55011 group 1)  |

## Contractual warranty

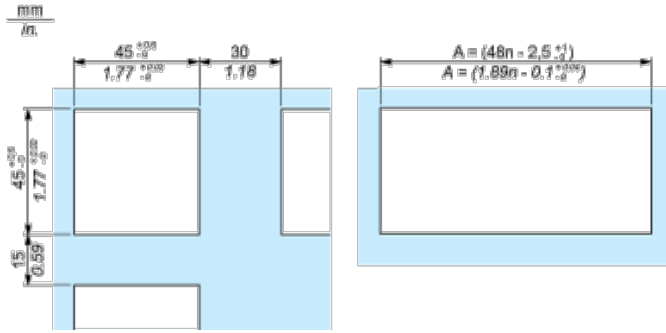
|                 |           |
|-----------------|-----------|
| Warranty period | 18 months |
|-----------------|-----------|

## Width 48 mm



## Panel Cut-Out and Mounting

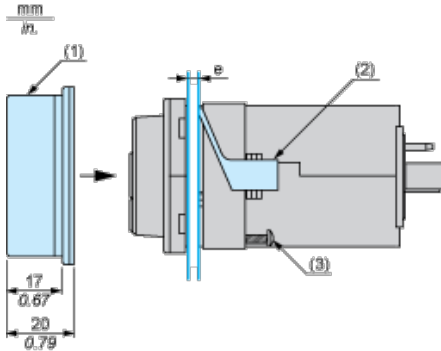
### Panel Cut-Out



n Number of devices mounted side-by-side

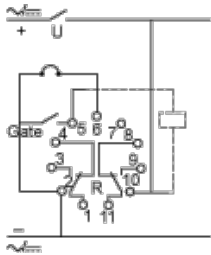
### Mounting

Cover positioning and mounting



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

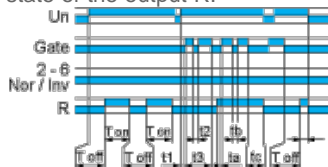
### Wiring Diagram



### Function L : Asymmetrical Flasher Relay (Starting Pulse Off)

#### Description

Repetitive cycle comprises of two, independently adjustable timing periods  $T_a$  and  $T_r$ . Each timing period corresponds to a different state of the output R.



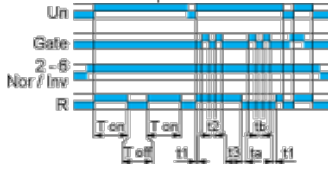
$$T_{off} = t_1 + t_2 + t_3$$

$$T_{on} = t_a + t_b + t_c$$

### Function Li : Asymmetrical Flasher Relay (Starting Pulse On)

### Description

Repetitive cycle comprises of two, independently adjustable timing periods  $T_a$  and  $T_r$ . Each timing period corresponds to a different state of the output R.




$$T_{on} = t_1 + t_2 + t_3$$

$$T_{off} = t_a + t_b + t_c$$

### Legend

 Relay de-energised

 Relay energised

 Output open

 Output closed

**C** Control contact

**G** Gate

**R** Relay or solid state output

**R1/R22** timed outputs

**R2** The second output is instantaneous if the right position is selected **inst.**

**T** Timing period

**Ta** - Adjustable On-delay

**Tr** - Adjustable Off-delay

**U** Supply