

Product data sheet

Characteristics

RE48AML12MW

time delay relay 2 functions - 0.02 s..300 h -
24..240 V AC - 2 OC

Product availability : Stock - Normally stocked in distribution facility

Price** : 86.00 USD



Main

| | |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Range of product | Zelio Time |
| Product or component type | Electronic timing relay |
| Electrical connection | Plug-in sub-base 11 |
| Discrete output type | Relay |
| Contacts type and composition | 2 C/O timed contacts, AgNi (cadmium free) |
| Component name | RE48A |
| Time delay type | B Di A C |
| Time delay range | 0.5...30 s 5...300 s 0.2...12 min 0.5...30 h 2...120 s 0.05...3 s 0.2...12 s 0.02...1.2 s 2...120 min 5...300 min 0.5...30 min 5...300 h 2...120 h 0.2...12 h |
| [Us] rated supply voltage | 24...240 V AC/DC 50/60 Hz |
| Voltage range | 0.85...1.1 Us AC 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 | Self-extinguishing |
| 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 +/- 1 %/V of the maximum setting value 24...48 V |
| Setting accuracy of time delay | +/- 5 % of full scale 25 °C 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 24 V 4.8 VA 240 V |
| Power consumption in W | 0.5 W 24 V 1.7 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 30 V 2 A DC-13 240 V 1.5 A AC-15 |
| Marking | CE |
| Surge withstand | 1 kV differential mode IEC 61000-4-5 level 3 2 kV common mode IEC 61000-4-5 level 3 |
| Mounting support | Base mounted: socket Panel mounted: system supplied with the product |
| Local signalling | Output relay state 1 LED yellow) Flashing: relay energised timing in progress LED indicator green) On steady: relay energised, no timing in progress LED indicator green) |
| Net weight | 0.31 lb(US) (0.14 kg) |

Environment

| | |
|---------------------------------------|------------------------------------------------------------------------------------------------------|
| Humidity drift | +/- 0.05 %/%RH of the maximum setting value IEC 61812-1 |
| Immunity to microbreaks | 10 ms |
| Dielectric strength | 1 kV 1 mA/1 minute IEC 61812-1 |
| Protection against electric shocks | 4 kV class III IEC 60664-1 4 kV class III IEC 61812-1 |
| Standards | IEC 61812-1 EN 50081-1/2 93/68/EEC 89/336/EEC EN 50082-1/2 IEC 60669-2-3 73/23/EEC |
| Product certifications | GL UL CULus CSA C-Tick |
| Ambient air temperature for storage | -40...158 °F (-40...70 °C) |
| Ambient air temperature for operation | -4...122 °F (-20...50 °C) |
| IP degree of protection | IP40 IEC 60529 housing) IP50 IEC 60529 front face) |
| Vibration resistance | 0.35 mm 10...55 Hz)IEC 60068-2-6 |
| Relative humidity | 93 % without condensation IEC 60068-2-3 |
| Resistance to electrostatic discharge | 6 kV in contact EN/IEC 61000-4-2 level 3 8 kV in air EN/IEC 61000-4-2 level 3 |
| Resistance to electromagnetic fields | 9.14 V/m (10 V/m) 26 MHz to 1 GHz IEC 61000-4-3 level 3 |
| Resistance to fast transients | 2 kV EN/IEC 61000-4-4 level 4 capacitive connecting clip) 4 kV EN/IEC 61000-4-4 level 4 direct) |

| | |
|----------------------------------|---------------------------------------------------------------------------------------------------|
| Immunity to radioelectric fields | 10 V 0.15...80 MHz)EN/IEC 61000-4-6 level 3 |
| Immunity to voltage dips | 30 % / 10 ms EN/IEC 61000-4-11 60 % / 100 ms EN/IEC 61000-4-11 95 % / 5 s EN/IEC 61000-4-11 |
| Disturbance radiated/conducted | Class B 0.15...30 MHz EN 55022 (EN 55011 group 1) |

Ordering and shipping details

| | |
|---------------------|---------------------------------------|
| Category | 22370 - RE, RM MISC TIMERS & COUNTERS |
| Discount Schedule | CP2 |
| GTIN | 00785901834922 |
| Package weight(Lbs) | 0.13 kg (0.28 lb(US)) |
| Returnability | Yes |
| Country of origin | ID |

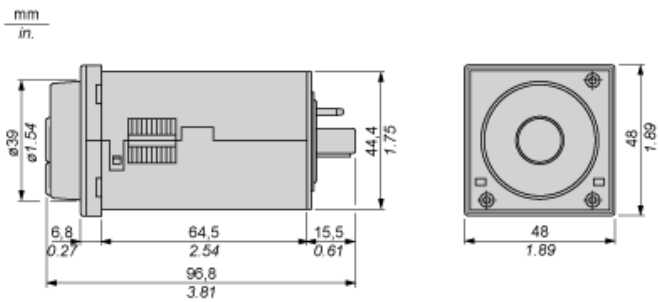
Offer Sustainability

| | |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status | Green Premium product |
| RECh Regulation | REACH Declaration |
| RECh free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

Contractual warranty

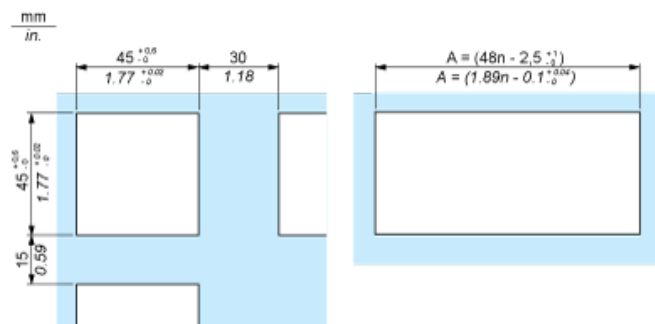
| | |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

Width 48 mm



Panel Cut-Out and Mounting

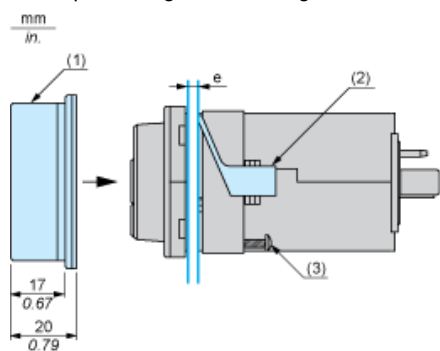
Panel Cut-Out



n Number of devices mounted side-by-side

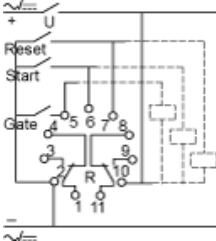
Mounting

Cover positioning and mounting



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

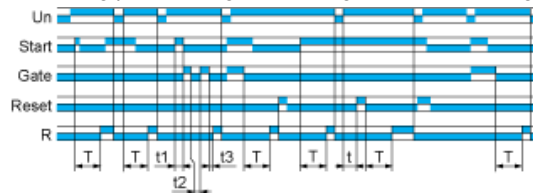
Wiring Diagram



Function A : Power on Delay Relay

Description

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

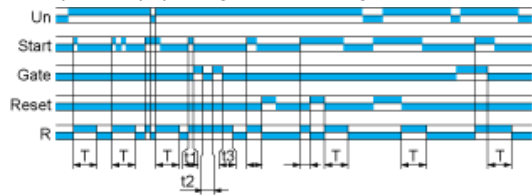


$$T = t1 + t2 + t3$$

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.

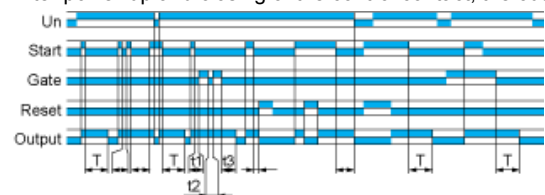


$$T = t1 + t2 + t3$$

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

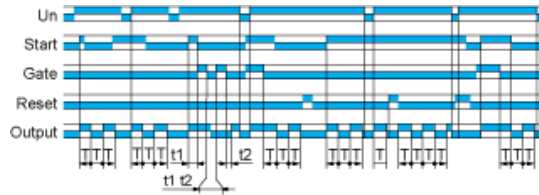


$$T = t1 + t2 + t3$$

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