# Product data sheet

Specifications





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

RE48AML12MW

Product availability: Stock - Normally stocked in distribution facility

### Price\*: 86.00 USD

### Main

Range Of Product Harmony Timer Relays   Product Or Component Type Panel-mounted/plug-in timer relay   Electrical Connection Plug-in sub-base 11   Width 1.89 in (48 mm)   Discrete Output Type Relay   Contacts Type And Composition 2 C/O timed contacts, AgNi (cadmium free)   Component Name RE48A   Time Delay Type Power on-delay Interval Off-delay Symmetrical flashing   Time Delay Range 0.530 s 5300 s 0.212 min 0.530 h 2120 s 0.053 s 0.212 s 0.021.2 s 2120 min 5300 min 5300 min 5300 min 5300 min 5300 min 5300 h 2120 h 0.212 h   [Us] Rated Supply Voltage 24240 V AC/DC 50/60 Hz   Voltage Range 0.851.1 Us AC 0.91.1 Us DC		
Electrical Connection   Plug-in sub-base 11     Width   1.89 in (48 mm)     Discrete Output Type   Relay     Contacts Type And Composition   2 C/O timed contacts, AgNi (cadmium free)     Component Name   RE48A     Time Delay Type   Power on-delay Interval Off-delay Symmetrical flashing     Time Delay Range   0.530 s 5300 s 0.212 min 0.530 h 2120 s 0.02212 s 0.02212 s 0.02212 s 0.02212 s 0.02212 s 0.02212 h     [Us] Rated Supply Voltage   24240 V AC/DC 50/60 Hz     Voltage Range   0.851.1 Us AC	Range Of Product	Harmony Timer Relays
Width   1.89 in (48 mm)     Discrete Output Type   Relay     Contacts Type And Composition   2 C/O timed contacts, AgNi (cadmium free)     Component Name   RE48A     Time Delay Type   Power on-delay Interval Off-delay     Symmetrical flashing     Time Delay Range   0.530 s     0.212 min 0.530 h     0.212 min 0.530 min 0.530 min 0.530 min 0.530 min 0.530 min 0.530 min 0.530 min 0.530 min 0.5300 min 0.212 h     [Us] Rated Supply Voltage   24240 V AC/DC 50/60 Hz     Voltage Range   0.851.1 Us AC	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   RE48A     Time Delay Type   Power on-delay Interval Off-delay Symmetrical flashing     Time Delay Range   0.530 s     5300 s   0.212 min 0.530 h     212 s   0.053 s     0.051.2 s   212 s     0.05300 min 0.5300 min 0.5300 min 0.5300 min 0.5300 min 0.5300 h     Voltage Range   0.4212 k	Electrical Connection	Plug-in sub-base 11
Contacts Type And Composition 2 C/O timed contacts, AgNi (cadmium free)   Component Name RE48A   Time Delay Type Power on-delay Interval Off-delay Symmetrical flashing   Time Delay Range 0.530 s 5300 s 0.212 min 0.530 h 2120 s 0.0212 s 0.0212 s 0.0212 s 0.0212 s 0.0212 s 0.0212 s 0.0212 s 0.0212 h   [Us] Rated Supply Voltage 24240 V AC/DC 50/60 Hz   Voltage Range 0.851.1 Us AC	Width	1.89 in (48 mm)
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Interval Off-delay   Symmetrical flashing   Time Delay Range 0.530 s   0.212 min 0.530 h   0.212 min 0.53 s   0.212 s 0.0212 s   0.0212 s 0.0212 s   0.12 min 5300 min   0.212 h 0.0212 s   0.12 min 5300 min   0.212 h 0.0212 s   12 min 0.12 min   12 min 5300 min   0.212 h 0.212 h   [Us] Rated Supply Voltage 24240 V AC/DC 50/60 Hz   Voltage Range 0.851.1 Us AC	Component Name	RE48A
5300 s     0.212 min     0.530 h     2120 s     0.053 s     0.2212 s     0.021.2 s     2120 min     5300 min     0.530 min     5300 h     2120 min     5300 min     0.530 min     5300 h     2120 h     0.212 h	Time Delay Type	Interval Off-delay
Voltage Range 0.851.1 Us AC	Time Delay Range	5300 s 0.212 min 0.530 h 2120 s 0.053 s 0.212 s 0.0212 s 0.0212 s 2120 min 5300 min 0.530 min 5300 h 2120 h
	[Us] Rated Supply Voltage	24240 V AC/DC 50/60 Hz
	Voltage Range	
Line Rated Current 5 A	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 48240 V +/- 1 %/V of the maximum setting value 2448 V

Setting Accuracy Of Time Delay +/- 5 % of full scale 25 °C IEC 61812-1

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

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	3000000 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	for output relay state 1 LED (yellow) for flashing: relay energised timing in progress LED indicator (green) for on steady: relay energised, no timing in progress LED indicator (green)
Function Available	A- Power on-delay relay-2 C/O B- Single interval relay w/ control signal-2 C/O C- Off-delay relay w/ control signal-2 C/O Di- Symmetrical flashing relay (starting pulse-on)-2 C/O
Control Type	Without test button
Net Weight	0.31 lb(US) (0.14 kg)
Shape Of Pin	Cylindrical
Number Of Functions	4

### 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	UL cULus CSA C-tick

Ambient Air Temperature For Storage	-40158 °F (-4070 °C)
Ambient Air Temperature For Operation	-4122 °F (-2050 °C)
Ip Degree Of Protection	IP40 IEC 60529 housing) IP50 IEC 60529 front face)
Vibration Resistance	0.35 mm 1055 Hz)IEC 60068-2-6
Relative Humidity	93 % without condensation IEC 60068-2-3
Resistance To Electrostatic Discharge	6 kV in contact IEC 61000-4-2 level 3 8 kV in air 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 IEC 61000-4-4 level 4 capacitive connecting clip) 4 kV IEC 61000-4-4 level 4 direct)
Immunity To Radioelectric Fields	10 V 0.1580 MHz)IEC 61000-4-6 level 3
Immunity To Voltage Dips	30 % / 10 ms IEC 61000-4-11 60 % / 100 ms IEC 61000-4-11 95 % / 5 s IEC 61000-4-11
Disturbance Radiated/Conducted	Class B 0.1530 MHz EN 55022 (EN 55011 group 1)

## Ordering and shipping details

Category	US10CP222370
Discount Schedule	0CP2
Gtin	3389110649598
Returnability	Yes
Country Of Origin	ID

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.24 in (5.7 cm)
Package 1 Width	2.44 in (6.2 cm)
Package 1 Length	4.13 in (10.5 cm)
Package 1 Weight	4.59 oz (130 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	30
Package 2 Height	5.91 in (15 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	9.59 lb(US) (4.35 kg)

### **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass 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.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance



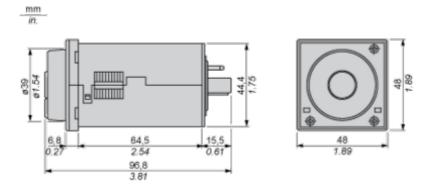
Rohs Exemption Information

### **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
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Circularity Profile	End of Life Information
California Proposition 65	WARNING: 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

**Dimensions Drawings** 

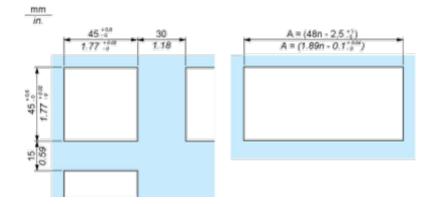
#### Width 48 mm



#### Mounting and Clearance

#### Panel Cut-Out and Mounting

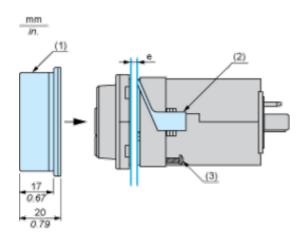
#### Panel Cut-Out



n Number of devices mounted side-by-side

#### Mounting

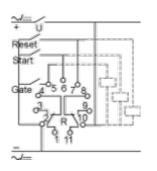
Cover positioning and mounting



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

Connections and Schema

#### Wiring Diagram

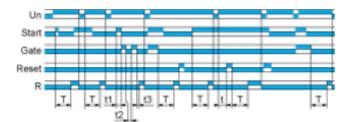


#### **Technical Description**

#### 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.

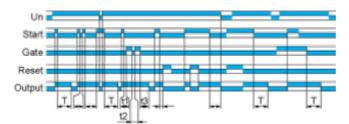


T = t1 + t2 + t3

#### 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.

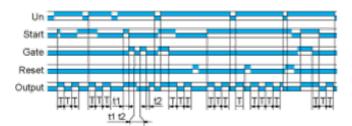


T = t1 + t2 + t3

#### 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	
	Dutput open
	Dutput closed
с	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
т	Timing period
Ta -	Adjustable On-delay
Tr -	Adjustable Off-delay
U	Supply