

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

RE48AML12MW

Main

Range of product	Harmony Timer Relays
Electrical connection	Plug-in sub-base 11 pin(s)
Width	48 mm
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 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
	0.530 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
<u></u>	0.91.1 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 48240 V +/- 1 %/V of the maximum setting value at 2448 V
Setting accuracy of time delay	+/- 5 % of full scale at 25 °C conforming to IEC 61812-1 +/- 10 % of full scale at 25 °C conforming to IEC 61812-1
Time delay type	Power on-delay - A- Power on-delay relay Interval - B- Single interval relay w/ control signal Off-delay - C- Off-delay relay w/ control signal Symmetrical flashing - Di- Symmetrical flashing relay (starting pulse-on)
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	6 VA at 240 V
Power consumption in W	2 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 30 V at 2 A DC-13 240 V at 1.5 A AC-15
Marking	CE
Surge withstand	1 kV differential mode conforming to IEC 61000-4-5 level 3 2 kV common mode conforming to IEC 61000-4-5 level 3
Mounting support	Base mounted: socket Panel mounted: system supplied with the product
Local signalling	LED (yellow) for output relay state LED indicator (green) for flashing: relay energised timing in progress LED indicator (green) for on steady: relay energised, no timing in progress
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
Product weight	0.14 kg
Shape of pin	Cylindrical
Number of functions	4

Environment

Humidity drift	+/- 0.05 %/%RH of the maximum setting value conforming to IEC 61812-1
Immunity to microbreaks	5 ms
Dielectric strength	2 kV 1 mA/1 minute conforming to IEC 61812-1
Protection against electric shocks	4 kV class III conforming to IEC 60664-1 4 kV class III conforming to 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	-4070 °C
Ambient air temperature for operation	-2050 °C

IP degree of protection	IP40 (housing) conforming to IEC 60529 IP50 (front face) conforming to IEC 60529	
Vibration resistance	0.35 mm (f= 1055 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 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 (direct) conforming to IEC 61000-4-4 level 3	
Immunity to radioelectric fields	10 V (0.1580 MHz) conforming to IEC 61000-4-6 level 3	
Immunity to voltage dips	30 % / 10 ms 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	5.700 cm
Package 1 Width	6.200 cm
Package 1 Length	10.500 cm
Package 1 Weight	130.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	30
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.350 kg

Contractual warranty

Warranty 18 months



Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing "Use Better, Use Longer, Use Again" campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

☑ Environmental footprint	
Total lifecycle Carbon footprint	37
Environmental Disclosure	Product Environmental Profile

Use Better

Materials and Substances	
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	Eacae435-a913-4cb7-91f9-1611e08cac07
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 reproductive harm. For more information go to www.P65Warnings.ca.gov

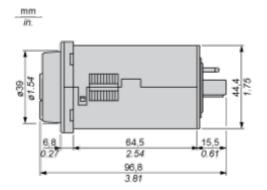
Use Again

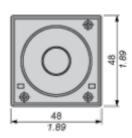
○ Repack and remanufacture	
End of life manual availability	End of Life Information
Take-back	No

RE48AML12MW

Dimensions Drawings

Width 48 mm

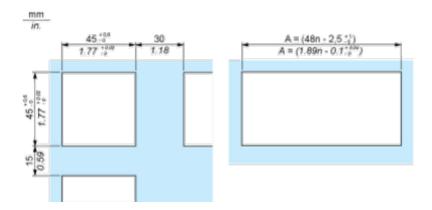




Mounting and Clearance

Panel Cut-Out and Mounting

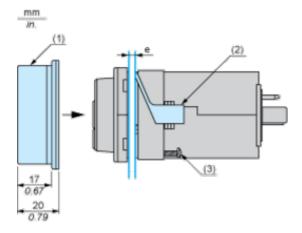
Panel Cut-Out



n Number of devices mounted side-by-side

Mounting

Cover positioning and mounting

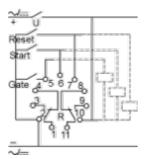


- e Panel thickness
- 1 Protective cover
- 2 Panel mounting frame
- 3 Locating screw

RE48AML12MW

Connections and Schema

Wiring Diagram



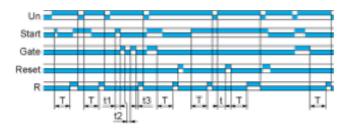
RE48AML12MW

Technical Description

Function A : Power on Delay Relay

Description

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



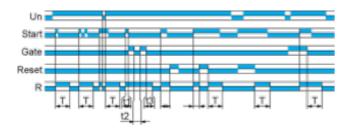
T = t1 + t2 + t3

RE48AML12MW

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.



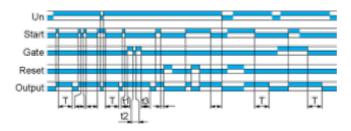
T = t1 + t2 + t3

RE48AML12MW

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

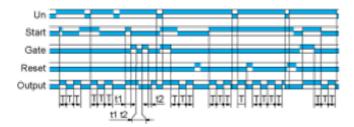
10

RE48AML12MW

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



Product data sheet RE48AML12MW

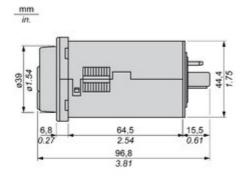
Legend

Relay de-energised Relay energised Output open Output 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
Та -	Adjustable On-delay
Tr -	Adjustable Off-delay
U	Supply

RE48AML12MW

Technical Illustration

Dimensions



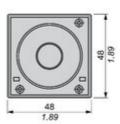


Image of product in real life situation

