Product data sheet

Specifications

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
Width	1.9 in (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	0.5...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
[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 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 +/- 10 % of full scale 25 °C 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 240 V
Power consumption in W	2 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)
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	5 ms
Dielectric strength	2 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	-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 IEC 61000-4-2 level 3 8 kV in air IEC 61000-4-2 level 3
Resistance to electromagnetic fields	9.1 V/yd (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 3 direct)
Immunity to radioelectric fields	10 V 0.15...80 MHz)IEC 61000-4-6 level 3
Immunity to voltage dips	30 % / 10 ms IEC 61000-4-11
Disturbance radiated/conducted	Class B 0.15...30 MHz EN 55022 (EN 55011 group 1)

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.2 in (5.7 cm)
Package 1 Width	2.4 in (6.2 cm)
Package 1 Length	4.1 in (10.5 cm)
Package 1 Weight	4.6 oz (130 g)
Unit Type of Package 2	S02
Number of Units in Package 2	30
Package 2 Height	5.9 in (15 cm)
Package 2 Width	11.8 in (30 cm)
Package 2 Length	15.7 in (40 cm)
Package 2 Weight	9.59 lb(US) (4.35 kg)

Contractual warranty

Warranty	18 months

Sustainability

Green Premium™ label is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO_2 products.

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

Learn more about Green Premium >

Guide to assess a product's sustainability >

Transparency

RoHS/REACh

Well-being performance

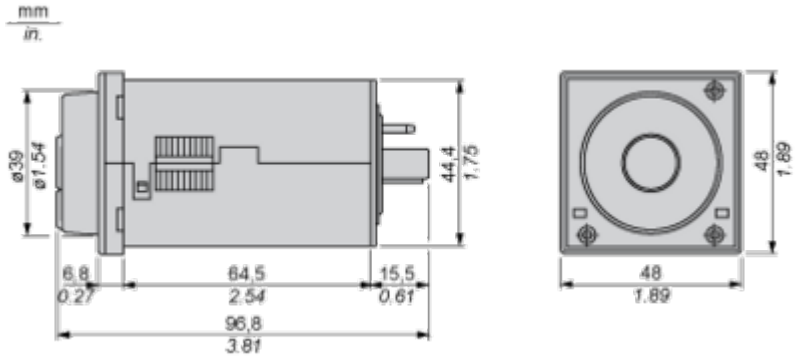
Mercury Free	
Rohs Exemption Information	Yes

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

Dimensions Drawings

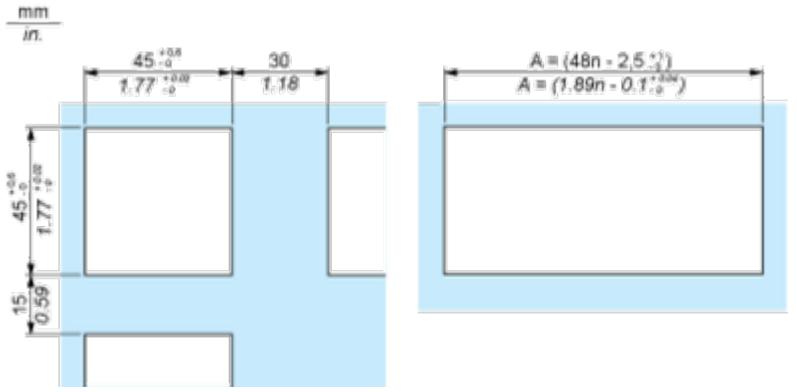
Width 48 mm



Mounting and Clearance

Panel Cut-Out and Mounting

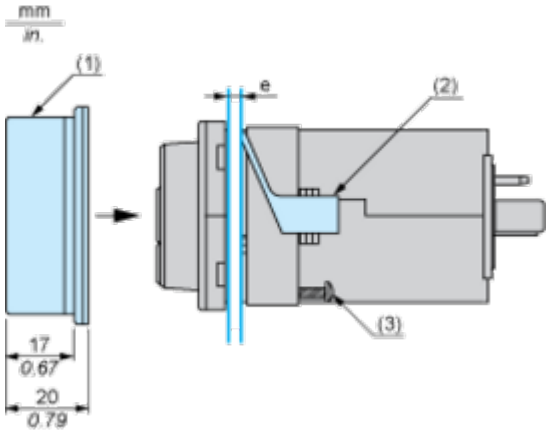
Panel Cut-Out



n Number of devices mounted side-by-side

Mounting

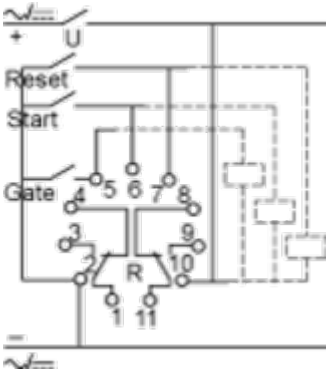
Cover positioning and mounting



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

Connections and Schema

Wiring Diagram

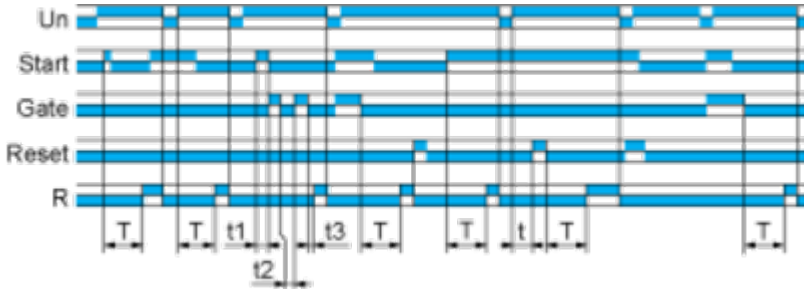


Technical Description

Function A : Power on Delay Relay

Description

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

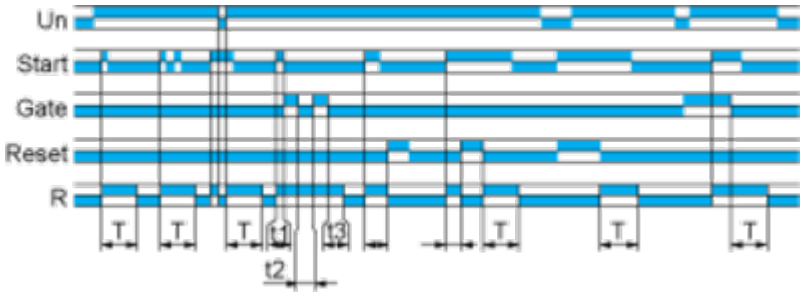


T = t1 + t2 + t3

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.

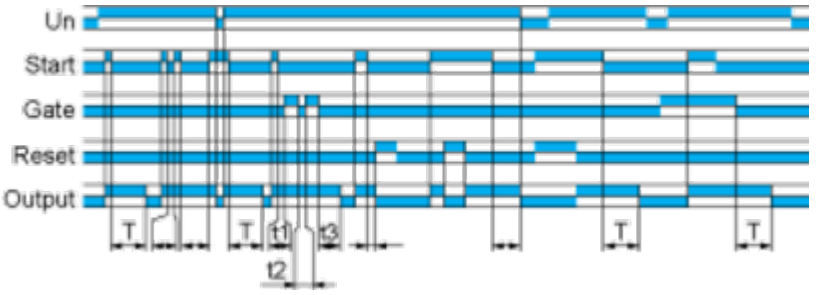


T = t1 + t2 + t3

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.

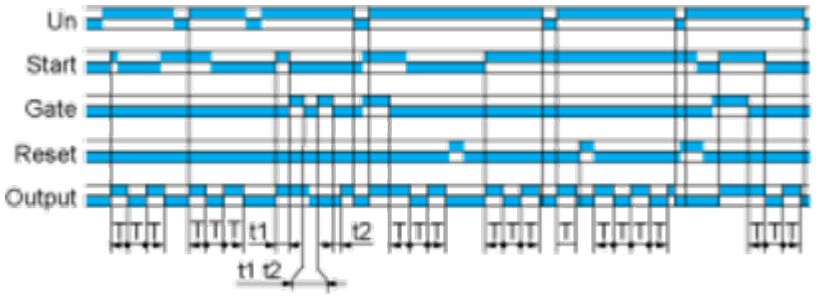


T = t1 + t2 + t3

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.



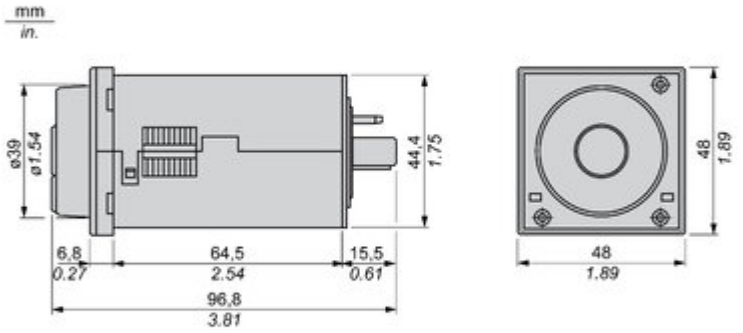
Legend

Relay de-energised
Relay energised
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

Offer Marketing Illustration

Product benefits / Features