RE48AML12MW

Harmony, Modular timing relay, 5 A, 2 CO, 0.02 s...300 h, time delay, 24...240 V AC/DC





Main

Range of product	Harmony Timer Relays
Product or component type	Power on-delay relay Interval relay Off-delay relay Symmetrical flashing relay
Electrical connection	Plug-in sub-base 11 pin(s)
Discrete output type	Relay
Contacts type and composition	2 C/O timed contacts, AgNi (cadmium free)
Component name	RE48A
Time delay type	A B C Di
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 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
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 4.8 VA at 240 V
Power consumption in W	0.5 W at 24 V 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 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	1 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	
Net 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 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 EN/IEC 61000-4-2 level 3 8 kV 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 IEC 61000-4-3 level 3	
Resistance to fast transients	2 KV (capacitive connecting clip) conforming to EN/IEC 61000-4-4 level 4 4 kV (direct) conforming to EN/IEC 61000-4-4 level 4	
Immunity to radioelectric fields	10 V (0.1580 MHz) conforming to EN/IEC 61000-4-6 level 3	
Immunity to voltage dips	30 % / 10 ms conforming to EN/IEC 61000-4-11 60 % / 100 ms conforming to EN/IEC 61000-4-11 95 % / 5 s conforming to EN/IEC 61000-4-11	
Disturbance radiated/conducted	Class B 0.1530 MHz conforming to EN 55022 (EN 55011 group 1)	
Packing Units		
Package 1 Weight	0.130 kg	
Package 1 Height	0.570 dm	
Package 1 width	0.600 dm	
Package 1 Length	1 050 dm	

Package 1 Weight	0.130 kg	
Package 1 Height	0.570 dm	
Package 1 width	0.600 dm	
Package 1 Length	1.050 dm	

Offer Sustainability

Sustainable offer status	Green Premium product
REACh Regulation	☑ REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EEU 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

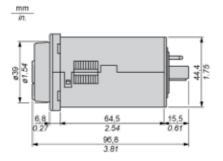
Contractual warranty

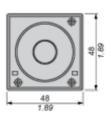
Warranty	18 months

Product data sheet Dimensions Drawings

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Width 48 mm

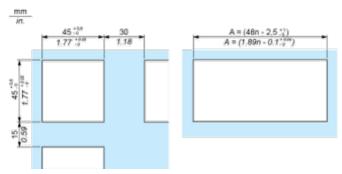




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Panel Cut-Out and Mounting

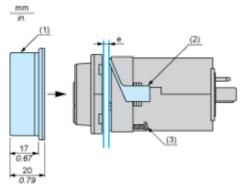
Panel Cut-Out



n Number of devices mounted side-by-side

Mounting

Cover positioning and mounting

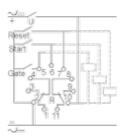


- e Panel thickness
- 1 Protective cover
- 2 Panel mounting frame
- 3 Locating screw

Product data sheet Connections and Schema

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Wiring Diagram



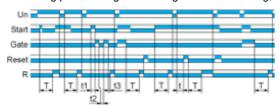
Product data sheet Technical Description

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Function A: Power on Delay Relay

Description

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

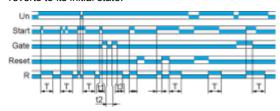


T = t1 + t2 + t3

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.

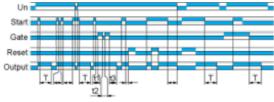


T = t1 + t2 + t3

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.

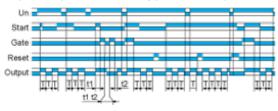


T = t1 + t2 + t3

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

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