Product data sheet
Characteristics

RE48AML12MW
multifunction relay, Harmony Timer Relays, 5A, 2CO, 0.02s...300h, time delay, 24...240V AC DC



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	0.5...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	Polycarbonate
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 48...240 V +/- 1 %/V of the maximum setting value at 24...48 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	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
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	0.14 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[RETURN]cULus[RETURN]CSA[RETURN]C-Tick
Ambient air temperature for storage	-40…70 °C
Ambient air temperature for operation	-20…50 °C
IP degree of protection	IP40 (housing) conforming to IEC 60529 IP50 (front face) conforming to IEC 60529
Vibration resistance	0.35 mm (f= 10…55 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 (0.15...80 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 Cm
Package 2 Width	30 Cm
Package 2 Length	40 Cm
Package 2 Weight	4.350 Kg

Offer Sustainability

Recyclability potential, in %	25
Total lifecycle Carbon footprint	37 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	1.8339
Carbon footprint of the manufacturing phase [A1 to A3]	2 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.017
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	34.6616470588
Carbon footprint of the use phase [B2, B3, B4, B6]	35 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	Yes
Carbon footprint of the end-of-life phase [C1 to C4]	0.26968
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	37
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	Eacae435-a913-4cb7-91f9-1611e08cac07
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is k
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised