Product data sheet Characteristics

RE48AML12MW

time delay relay 2 functions - 0.02 s..300 h - 24..240 V AC - 2 OC



Main

Range of product	Zelio Time
Product or component type	Electronic timing 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	0.021.2 s 0.053 s 0.212 h 0.212 min 0.212 s 0.530 h 0.530 min 0.530 s 2120 h 2120 min 2120 s 5300 h 5300 min 5300 s
[Us] rated supply voltage	24240 V AC/DC 50/60 Hz
Voltage range	0.91.1 Us DC 0.851.1 Us AC
[In] rated current	5 A

Complementary

Complementary	
Product front plate size	48 x 48 mm
Control type	Selector switch on 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	+/- 1 %/V of the maximum setting value 2448 V +/- 0.2 %/V of the maximum setting value 48240 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 %
Maximum power consumption	4.8 VA 240 V 1.1 VA 24 V
Maximum power consumption	1.7 W 240 V 0.5 W 24 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 1.5 A AC-15 30 V 2 A DC-13 240 V 5 A AC-12
Marking	CE
Surge withstand	2 kV (common mode) conforming to IEC 61000-4-5 level 3 1 kV (differential mode) conforming to IEC 61000-4-5 level 3
Mounting support	Base mounted: socket Panel mounted: system supplied with the product
Local signalling	LED indicator green on steady: relay energised, no timing in progress LED indicator green flashing: relay energised timing in progress 1 LED yellow output relay state
Product 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 category 3 conforming to IEC 61812-1 4 kV category 3 conforming to IEC 60664-1
Standards	73/23/EEC 89/336/EEC 93/68/EEC EN 50081-1/2 EN 50082-1/2 IEC 60669-2-3 IEC 61812-1
Product certifications	CSA C-Tick CULus GL UL
Ambient air temperature for storage	-4070 °C
Ambient air temperature for operation	-2050 °C
IP degree of protection	IP50 (front face) conforming to IEC 60529 IP40 (housing) 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	8 kV (in air) conforming to EN/IEC 61000-4-2 level 3 6 kV (in contact) 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	4 kV, direct conforming to EN/IEC 61000-4-4 level 4 2 kV, capacitive connecting clip 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	95 % / 5 s conforming to EN/IEC 61000-4-11 60 % / 100 ms conforming to EN/IEC 61000-4-11 30 % / 10 ms conforming to EN/IEC 61000-4-11
D'at dans and at distance	Oleve D (0.45, 00.MH) > (5.55) (4.5M 55000 (5N 55044

Class B (0.15...30 MHz) conforming to EN 55022 (EN 55011 group 1)

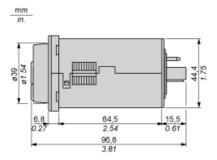


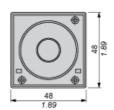
Disturbance radiated/conducted

Product data sheet Dimensions Drawings

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Width 48 mm

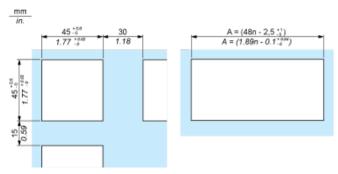




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Panel Cut-Out and Mounting

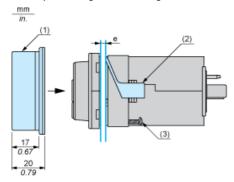
Panel Cut-Out



n Number of devices mounted side-by-side

Mounting

Cover positioning and mounting

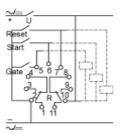


- e Panel thickness
- 1 Protective cover
- 2 Panel mounting frame
- 3 Locating screw

Product data sheet Connections and Schema

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Wiring Diagram

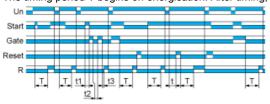


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Function A: Power on Delay Relay

Description

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

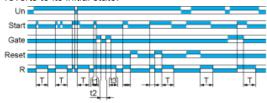


T = t1 + t2 + t3

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.

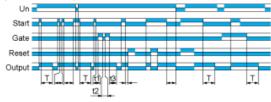


T = t1 + t2 + t3

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.

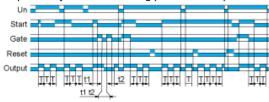


T = t1 + t2 + t3

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/ 2 timed outputs R2 R2 The second output is instantaneous if the right position is selected inst. Т Timing period Та Adjustable On-delay Tr Adjustable Off-delay

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Supply