RE48ACV12MW

asymmetrical flashing relay - 0.02 s..300 h - 24..240 V AC - 2 OC





Main

Range of product	Harmony Timer Relays
Product or component type	Asymmetrical 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	L Li
Time delay range	0.212 min 5300 s 0.021.2 s 0.530 min 5300 h 0.212 h 0.212 s 0.530 s 2120 s 0.053 s 2120 min 5300 min 0.530 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

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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
3	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	EN 50081-1/2 EN 50082-1/2 IEC 61812-1 93/68/EEC 89/336/EEC IEC 60669-2-3 73/23/EEC	
Product certifications	UL C-Tick CULus CSA	
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 EN/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	0.550 dm	
Package 1 width	0.610 dm	
Package 1 Length	1.030 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) EPEU 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	

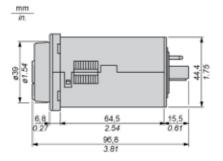
18 months

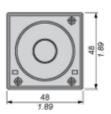
Warranty

Product data sheet Dimensions Drawings

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Width 48 mm

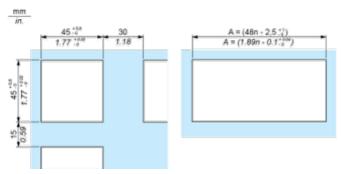




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Panel Cut-Out and Mounting

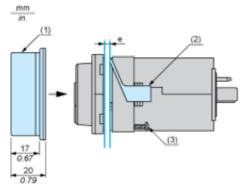
Panel Cut-Out



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

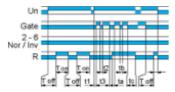


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Function L: Asymmetrical Flasher Relay (Starting Pulse Off)

Description

Repetitive cycle comprises of two, independently adjustable timing periods Ta and Tr. Each timing period corresponds to a different state of the output R.

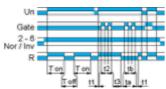


Toff = t1 + t2 + t3Ton = ta + tb + tc

Function Li: Asymmetrical Flasher Relay (Starting Pulse On)

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Ton = t1 + t2 + t3Toff = ta + tb + tc

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