Product data sheet Characteristics

RE48ACV12MW

dual function relay, Harmony Timer Relays, 5A, 2CO, 0.02s...300h, asymmetrical flashing, 24...240V AC DC





Main

Product or Component Type Electrical connection Plug-in sub-base 11 Discrete output type Relay Contacts type and composition Component name RE48A Time delay type Asymmetrical flashing 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 0.053 s 2120 s 0.053 s 2120 min 5300 min 0.5300 min 0.5300 h 0.100120 min 0	Range of Product	Harmony Timer Relays	
Discrete output type Relay	•	Dual function relay	
Contacts type and composition 2 C/O timed contacts, AgNi (cadmium free) Component name RE48A Time delay type Asymmetrical flashing Time delay range 0.212 min 5300 s 0.021.2 s 0.530 min 0.212 h 0.212 s 0.530 s 2120 s 0.053 s 2120 min 5300 min 0.530 h 2120 h [Us] rated supply voltage 24240 V AC/DC 50/60 Hz Voltage range 0.851.1 Us AC 0.91.1 Us DC	Electrical connection	Plug-in sub-base 11	
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voltage Voltage range 0.851.1 Us AC 0.91.1 Us DC	Time delay range	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	
0.91.1 Us DC		24240 V AC/DC 50/60 Hz	
Line Rated Current 5 A	Voltage range		
	Line Rated Current	5 A	

Complementary

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 48240 V +/- 1 %/V of the maximum setting value 2448 V	
Setting accuracy of time delay	+/- 5 % of full scale 25 °C 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 24 V 4.8 VA 240 V	
Power consumption in W	0.5 W 24 V 1.7 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	For output relay state 1 LED (yellow)
	For flashing: relay energised timing in progress LED indicator (green)
	For on steady: relay energised, no timing in progress LED indicator (green)
Net Weight	0.31 lb(US) (0.14 kg)

Environment

Humidity drift	+/- 0.05 %/%RH of the maximum setting value IEC 61812-1
Immunity to microbreaks	10 ms
Dielectric strength	1 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	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[RETURN]C-tick[RETURN]cULus[RETURN]CSA
Ambient Air Temperature for Storage	-40158 °F (-4070 °C)
Ambient Air Temperature for Operation	-4122 °F (-2050 °C)
IP degree of protection	IP40 IEC 60529 housing) IP50 IEC 60529 front face)
Vibration resistance	0.35 mm 1055 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	9.14 V/m (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 4 capacitive connecting clip) 4 kV IEC 61000-4-4 level 4 direct)
Immunity to radioelectric fields	10 V 0.1580 MHz)IEC 61000-4-6 level 3
Immunity to voltage dips	30 % / 10 ms IEC 61000-4-11 60 % / 100 ms IEC 61000-4-11 95 % / 5 s IEC 61000-4-11
Disturbance radiated/conducted	Class B 0.1530 MHz EN 55022 (EN 55011 group 1)

Ordering and shipping details

Category	22370-RE, RM MISC TIMERS & COUNTERS
Discount Schedule	CP2
GTIN	3389110649741
Returnability	Yes
Country of origin	ID

Packing Units

•		
Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	2.24 in (5.700 cm)	
Package 1 Width	4.06 in (10.300 cm)	
Package 1 Length	2.44 in (6.200 cm)	
Package 1 Weight	4.62 oz (131.000 g)	
Unit Type of Package 2	S02	

Number of Units in Package 2	30	
Package 2 Height	5.91 in (15.000 cm)	
Package 2 Width	11.81 in (30.000 cm)	
Package 2 Length	15.75 in (40.000 cm)	
Package 2 Weight	9.74 lb(US) (4.417 kg)	

Offer Sustainability

Sustainable offer status Green Premium product		
California proposition 65	WARNING: This product can expose you to chemicals including: Nickel compounds, which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	
REACh Regulation	☑REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)	
Mercury free	Yes	
China RoHS Regulation	China RoHS Declaration	
RoHS exemption information	₫Yes	
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.	

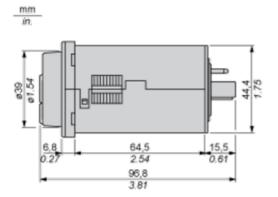
Contractual warranty

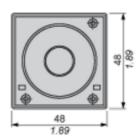
Marranti	10 months	
vvarianty	18 months	

Product data sheet Dimensions Drawings

RE48ACV12MW

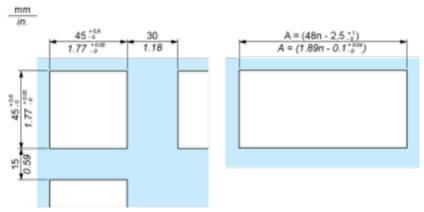
Width 48 mm





Panel Cut-Out and Mounting

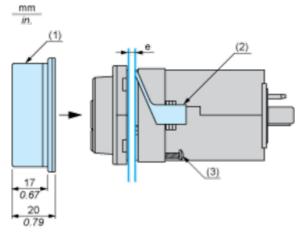
Panel Cut-Out



n Number of devices mounted side-by-side

Mounting

Cover positioning and mounting

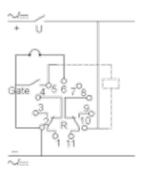


- e Panel thickness
- 1 Protective cover
- 2 Panel mounting frame
- 3 Locating screw

Product data sheet Connections and Schema

RE48ACV12MW

Wiring Diagram

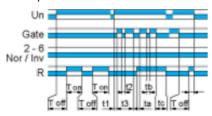


RE48ACV12MW

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.

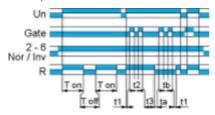


Toff = t1 + t2 + t3Ton = ta + tb + tc

Function Li: Asymmetrical Flasher Relay (Starting Pulse On)

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.



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