Specifications

Green Premium"



## Harmony, Modular timing relay, 8 A, 1 CO, 1 s..100 h, on delay, 24 V DC / 24...240 V AC/DC

RE17RAMU

#### Main

Wall	
Range of product	Harmony Timer Relays
Product or component type	Dual function relay
Discrete output type	Relay
Width	17.5 mm
Device short name	RE17R
Time delay type	Power on-delay
Time delay range	110 min 10100 h 0.11 s 660 s 660 min 110 s 110 h
Nominal output current	8 A

### Complementary

Contacts type and composition	1 C/O	
Contacts material	Cadmium free	
Height	90 mm	
Depth	72 mm	
Control type	Selector switch front panel	
[Us] rated supply voltage	24240 V AC 50/60 Hz 24 V DC	
Voltage range	0.851.1 Us	
Supply frequency	5060 Hz +/- 5 %	
Release of input voltage	10 V	
Connections - terminals	Screw terminals, 1 x 0.51 x 3.3 mm <sup>2</sup> (AWG 20AWG 12) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm <sup>2</sup> (AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm <sup>2</sup> (AWG 24AWG 14) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm <sup>2</sup> (AWG 24AWG 16) flexible with cable end	
Tightening torque	0.61 N.m conforming to IEC 60947-1	
Housing material	Self-extinguishing	
Repeat accuracy	+/- 0.5 % conforming to IEC 61812-1	
Temperature drift	+/- 0.05 %/°C	



Voltage drift	+/- 0.2 %/V	
Setting accuracy of time delay	+/- 10 % of full scale at 25 °C conforming to IEC 61812-1	
Control signal pulse width	100 ms with load in parallel typical 30 ms typical	
Insulation resistance	100 MOhm at 500 V DC conforming to IEC 60664-1	
Reset time	120 ms on de-energisation typical	
On-load factor	100 %	
Power consumption in VA	032 VA at 240 V AC	
Maximum power consumption in W	0.6 W at 24 V DC	
Minimum switching current	10 mA at 5 V DC	
Maximum switching current	8 A AC/DC	
Maximum switching voltage	250 V AC	
Breaking capacity	2000 VA	
Operating frequency	10 Hz	
Electrical durability	100000 cycles (8 A at 250 V AC maximum) for resistive load	
Mechanical durability	1000000 cycles	
Dielectric strength	2.5 kV 1 mA/1 minute 50 Hz conforming to IEC 61812-1	
[Uimp] rated impulse withstand voltage	5 kV during 1.2/50 μs	
Power on delay	100 ms	
Marking	CE	
Creepage distance	4 kV/3 conforming to IEC 60664-1	
Safety reliability data	B10d = 270000 MTTFd = 296.8 years	
Mounting position	Any position in relation to normal vertical mounting plane	
Mounting support	35 mm DIN rail conforming to EN/IEC 60715	
Local signalling	LED indicator for on steady: relay energised, no timing in progress LED indicator for flashing: timing in progress 80 % ON and 20 % OFF LED indicator for pulsing: relay de-energised, no timing in progress (except function Di-D, Li-L) 5 % ON and 95 % OFF	
Net weight	0.07 kg	
	A, At	
Functionality	On-delay timing	
Compatibility code	RE17	
Environment		
Immunity to microbreaks	20 ms	
Standards	2006/95/EC 2004/108/EC IEC 61812-1 EN 61000-6-3 EN 61000-6-1 EN 61000-6-4 EN 61000-6-2	
Product certifications	CSA cULus	

IP degree of protection	IP20 (terminal block) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP50 (front panel) conforming to IEC 60529	
Vibration resistance	20 m/s <sup>2</sup> (f= 10150 Hz) conforming to IEC 60068-2-6	
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27	
Relative humidity	93 % without condensation conforming to IEC 60068-2-30	
Electromagnetic compatibility	Electrostatic discharge immunity test: (in contact), level 3, 6 kV, conforming to IEC 61000-4-2 Electrostatic discharge immunity test: (in air), level 3, 8 kV, conforming to IEC 61000-4-2 Susceptibility to electromagnetic fields: (80 MHz to 1 GHz), level 3, 10 V/m, conforming to IEC 61000-4-3 Electrical fast transient/burst immunity test: (capacitive connecting clip), level 3, 1 kV, conforming to IEC 61000-4-4 Electrical fast transient/burst immunity test: (direct), level 3, 2 kV, conforming to IEC 61000-4-4 1.2/50 µs shock waves immunity test: (differential mode), level 3, 1 kV, conforming to IEC 61000-4-5 1.2/50 µs shock waves immunity test: (common mode), level 3, 2 kV, conforming to IEC 61000-4-5 Conducted RF disturbances: (0.1580 MHz), level 3, 10 V, conforming to IEC 61000-4-6 Voltage dips and interruptions immunity test: (1 cycle), 0 %, conforming to IEC 61000-4-11 Voltage dips and interruptions immunity test: (25/30 cycles), 70 %, conforming to IEC 61000-4-11 Conducted and radiated emissions: , class B, conforming to EN 55022	

### **Packing Units**

<b>—</b>	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.700 cm
Package 1 Width	7.800 cm
Package 1 Length	9.500 cm
Package 1 Weight	77.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	3.649 kg
Unit Type of Package 3	P06
Number of Units in Package 3	640
Package 3 Height	75.000 cm
Package 3 Width	60.000 cm
Package 3 Length	80.000 cm
Package 3 Weight	65.060 kg

### Offer Sustainability

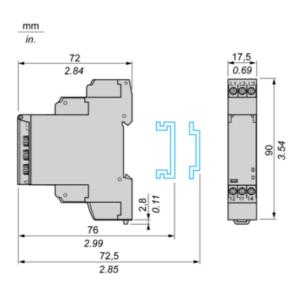
Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
China RoHS Regulation	China RoHS declaration	
RoHS exemption information	Yes	
Environmental Disclosure	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	

WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov

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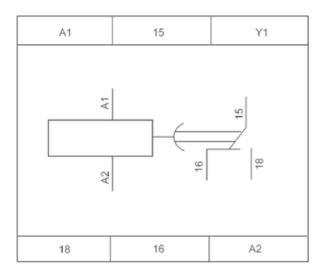
**Dimensions Drawings** 

### Width 17.5 mm



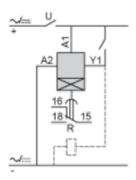
Connections and Schema

### Internal Wiring Diagram



Connections and Schema

### Wiring Diagram





## **RE17RAMU**

**Technical Description** 

### Function A : Power on Delay Relay

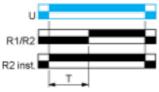
### Description

The timing period T begins on energisation. After timing, the output(s) R close(s). The second output can be either timed or instantaneous.

### Function: 1 Output



### Function: 2 Outputs



2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

## **RE17RAMU**

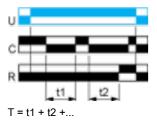
Technical Description

#### Function At : Power on Delay Relay (Summation) with Control Signal

#### Description

After power-up, the first opening of control contact C starts the timing. Timing can be interrupted each time control contact closes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output relay closes.

#### Function: 1 Output





**RE17RAMU** 

Technical Description

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

Recommended replacement(s)