RE17RMEMU

Harmony, Modular timing relay, 8 A, 1 CO, 0.1 s..10 h, multifunction, 24 V DC / 24...240 V AC/ DC





Main

Range of product	Harmony Timer Relays
Product or component type	Power on-delay relay Interval relay Off-delay relay Symmetrical flashing relay
Discrete output type	Relay
Width	17.5 mm
Device short name	RE17R
Time delay type	A At B C D Di H Ht
Time delay range	660 min 110 min 110 s 110 h 660 s 0.11 s
Nominal output current	8 A

Complementary

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 mm² (AWG 20AWG 12) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (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	10000000 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	MTTFd = 296.8 years B10d = 270000	
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	
Time delay type	A, At, B, C, D, Di, H, Ht	
Functionality	Multifunction	
Compatibility code	RE17	

Environment

Immunity to microbreaks	20 ms	
Standards	2004/108/EC	
	EN 61000-6-2	
	EN 61000-6-3	
	EN 61000-6-1	
	2006/95/EC	
	IEC 61812-1	
	EN 61000-6-4	
Product certifications	CSA	
	CULus	
Ambient air temperature for storage	-3060 °C	
Ambient air temperature for operation	-2060 °C	
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/s² (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

· coming or mo	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	81 g
Package 1 Height	2.8 cm
Package 1 width	7.8 cm
Package 1 Length	9.6 cm
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Weight	3.74 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm

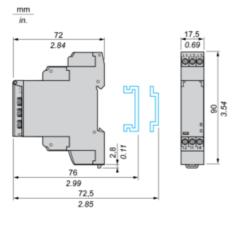
Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EV 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	

Product data sheet Dimensions Drawings

RE17RMEMU

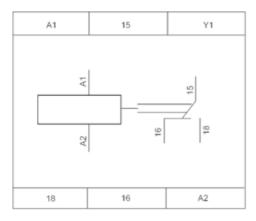
Width 17.5 mm



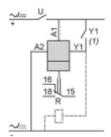
Product data sheet Connections and Schema

RE17RMEMU

Internal Wiring Diagram



Wiring Diagram



1) Contact Y1:

- Control for functions B, C, Ac, Bw, Ad, Ah, N, O, W, T, Tt.
- Partial stop for functions At, Ht and Pt.
- Function D if Di selected.
- Not used for functions A, H and P.

Product data sheet Technical Description

RE17RMEMU

Function A: Power on Delay Relay

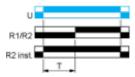
Description

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



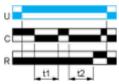
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

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



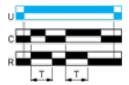
T = t1 + t2 +...

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.

Function: 1 Output

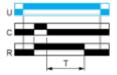


Function C: Off-Delay Relay with Control Signal

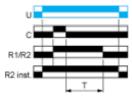
Description

After power-up and closing of the control contact C, the output R closes. When control contact C re-opens, timing T starts. At the end of the timing period, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



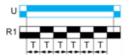
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function D: Symmetrical Flashing Relay (Starting Pulse Off)

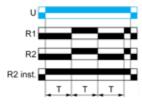
Description

On energisation of power supply, output(s) R starts at its/their initial state for timing duration T then change(s) to output(s) R close(s) for the same timing duration T.This cycle is repeated indefintely until power supply removal. Specially for RE17*, RE22R2AMU, RE22R2MMW, RE22R2MMU, RE22R2MJU, this D function can only be initiated by energizing Y1 permanently. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

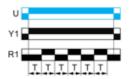
Function: 1 Output



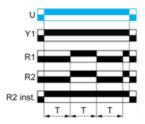
Function: 2 Outputs



Function: 1 Output with Retrigger / Restart Control



Function: 2 Output with Retrigger / Restart Control

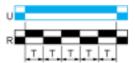


Function Di: Symmetrical Flasher Relay (Starting Pulse On)

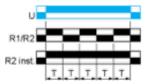
Description

Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T. 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.)

Function H: Interval Relay

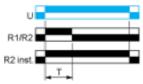
Description

On energisation of the relay, timing period T starts and the output(s) R close(s). At the end of the timing period T, the output(s) R revert(s) to its/their initial state. 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.)

Function Ht: Interval Relay & With Pause / Summation Control

Description

On energisation of power supply, output(s) R close(s) and timing period T starts.

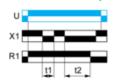
The timing can be interrupted / paused each time X1 energizes.

When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R revert(s) to its/their initial state Reenergization of X1 will also cause output(s) R close(s) if the time has elapsed and restart the same operation as described at the beginning.

Except for RE17*, RE22R2MMW, RENF22R2MMW, RE22R2MMU and RE22R2MJU, timing can be interrupted / paused each time Y1 energizes.

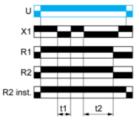
The second output (R2) can be either timed (when set to "TIMED" or instantaneous (when set to "INST").

Function: 1 Output



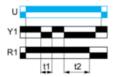
T = t1 + t2 +...

Function: 2 Outputs



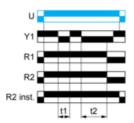
T = t1 + t2 +...

Function: 1 Output with Retrigger / Restart Control



T = t1 + t2 +...

Function: 2 Outputs with Retrigger / Restart Control



T = t1 + t2 +...

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