RE17RMXMU

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





Main

Range of Product	Harmony Timer Relays
Product or Component Type	Multifunction relay
Discrete output type	Relay
Width	0.69 in (17.5 mm)
Device short name	RE17R
Time delay type	Pulse delay Safe-guard Bistable Interval
Time delay range	660 s 110 min 0.11 s 110 h 110 s 660 min 10100 h
Nominal output current	8 A

Complementary

Complementary		
Contacts type and composition	1 C/O	
Contacts material	Cadmium free	
Height	3.54 in (90 mm)	
Depth	2.83 in (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	5.318.85 lbf.in (0.61 N.m) IEC 60947-1	
Housing material	Self-extinguishing	
Repeat accuracy	+/- 0.5 % IEC 61812-1	
Temperature drift	+/- 0.05 %/°C	
Voltage drift	+/- 0.2 %/V	
Setting accuracy of time delay	+/- 10 % of full scale 25 °C IEC 61812-1	
Control signal pulse width	100 ms with load in parallel typical 30 ms typical	
Insulation resistance	100 MOhm 500 V DC IEC 60664-1	
Reset time	120 ms on de-energisation typical	
On-load factor	100 %	
Power consumption in VA	032 VA 240 V AC	
Maximum power consumption in W	0.6 W 24 V DC	
Minimum switching current	10 mA 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 resistive 8 A 250 V AC	
Mechanical durability	10000000 cycles	
Dielectric strength	2.5 kV 1 mA/1 minute 50 Hz IEC 61812-1	
[Uimp] rated impulse withstand voltage	5 kV 1.2/50 μs	
Power on delay	100 ms	
Marking	CE	
Creepage distance	4 kV/3 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 on steady: relay energised, no timing in progress LED indicator 80 % ON and 20 % OFF flashing: timing in progress LED indicator 5 % ON and 95 % OFF pulsing: relay de-energised, no timing in progress (except function Di-D, Li-L)	
Net Weight	0.15 lb(US) (0.07 kg)	
Time delay type	Ad, Ah, N, O, P, Pt, TI, Tt, W	
Functionality	Multifunction	
Compatibility code	RE17	

Environment

Environment	
Immunity to microbreaks	20 ms
Standards	2006/95/EC
	2004/108/EC
	EN 61000-6-1
	EN 61000-6-4
	EN 61000-6-2
	EN 61000-6-3
	IEC 61812-1
Product Certifications	CULus
	GL
	CSA
Ambient Air Temperature for Storage	-22140 °F (-3060 °C)
Ambient Air Temperature for Operation	-4140 °F (-2060 °C)
IP degree of protection	IP20 IEC 60529 terminal block)
-	IP40 IEC 60529 housing)
	IP50 IEC 60529 front panel)
Vibration resistance	20 m/s² 10150 Hz)IEC 60068-2-6
Shock resistance	15 gn 11 ms IEC 60068-2-27
Relative Humidity	93 % without condensation IEC 60068-2-30
Electromagnetic compatibility	Electrostatic discharge immunity test 6 kV in contact) level 3 IEC 61000-4-2 Electrostatic discharge immunity test 8 kV in air) level 3 IEC 61000-4-2 Susceptibility to electromagnetic fields 10 V/m 80 MHz to 1 GHz) level 3 IEC
	61000-4-3 Electrical fast transient/burst immunity test 1 kV capacitive connecting clip) level
	3 IEC 61000-4-4
	Electrical fast transient/burst immunity test 2 kV direct) level 3 IEC 61000-4-4
	1.2/50 µs shock waves immunity test 1 kV differential mode) level 3 IEC 61000-4-5

	1.2/50 µs shock waves immunity test 2 kV common mode) level 3 IEC 61000-4-5 Conducted RF disturbances 10 V 0.1580 MHz) level 3 IEC 61000-4-6
	Voltage dips and interruptions immunity test 0 % 1 cycle) IEC 61000-4-11
	Voltage dips and interruptions immunity test 0 % 1 cycle) IEC 61000-4-11 Voltage dips and interruptions immunity test 70 % 25/30 cycles) IEC 61000-4-11
	Conducted and radiated emissionsclass B EN 55022

Ordering and shipping details

Category	22370-RE, RM MISC TIMERS & COUNTERS
Discount Schedule	CP2
GTIN	3606480552786
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.18 in (3.000 cm)
Package 1 Width	3.27 in (8.300 cm)
Package 1 Length	3.78 in (9.600 cm)
Package 1 Weight	2.89 oz (82.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	40
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	8.09 lb(US) (3.669 kg)

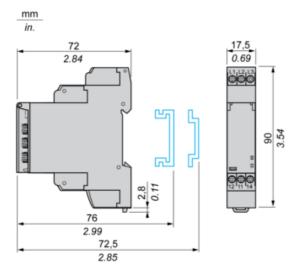
Offer Sustainability

Sustainable offer status	Green Premium product	
California proposition 65	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	
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	

Product data sheet Dimensions Drawings

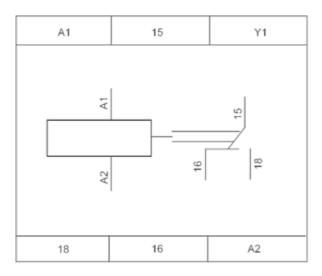
RE17RMXMU

Width 17.5 mm

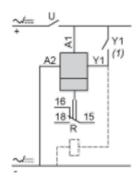


RE17RMXMU

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.

RE17RMXMU

Function Ad: Pulse Delayed Relay with Control Signal

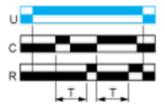
Description

After power-up, pulsing or maintaining of control contact C starts the timing T.

At the end of this timing period T, the output R closes.

The output R will be reset the next time control contact C is pulsed or maintained.

Function: 1 Output



Function Ah: Pulse Delayed Relay (Single Cycle) with Control Signal

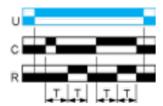
Description

After power-up, pulsing or maintaining of control contact C starts the timing T. A single cycle then starts with 2 timing periods T of equal duration (start with output in rest position).

Output R closes at the end of the first timing period T and reverts to its initial position at the end of the second timing period T.

Control contact C must be reset in order to re-start the single flashing cycle.

Function: 1 Output



Function N: Retriggerable Interval Relay with Control Signal On

Description

After power-up and an initial control pulse C, the output R closes.

If the interval between two control pulses C is greater than the set timing period T, timing elapses normally and the output R closes at the end of the timing period. If the interval is not greater than the set timing period, the output R remains closed until this condition is met.

Function: 1 Output



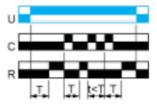
Function O: Retriggerable Interval Delayed Relay with Control Signal On

Description

An initial timing period T begins on energisation. At the end of this timing period, the output R closes.

As soon as there is a control pulse C, the output R reverts to its initial state until the interval between two control pulses is less than the value of the set timing period T. Otherwise, the output R closes at the end of the timing period T.

Function: 1 Output



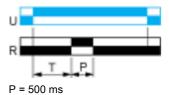
Function P: Pulse Delayed Relay with Fixed Pulse Length

Description

The timing period T begins on energisation.

At the end of this period, the output R closes for a fixed time P.

Function: 1 Output



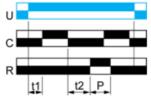
Function Pt: Pulse Delayed Relay (Summation and Fixed Pulse Length) with Control Signal Off

Description

On energisation, timing period T starts (it can be interrupted by operating the Gate control contact G).

At the end of this period, the output R closes for a fixed time P.

Function: 1 Output



T = t1 + t2 + ...

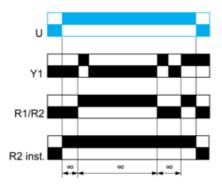
P = 500 ms

Function TL: Bistable Relay with Control Signal On

Description

After power-up, pulsing or maintaining of control contact Y1 switches the output on.

A second pulse on the control contact Y1 switches the output relay off.



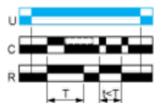
Function Tt: Retriggerable Bistable Relay with Control Signal On

Description

After power-up, pulsing or maintaining of control contact C switches output R on and starts timing T.

The output switches off at the end of the timing period T or following a second pulse on the control contact C.

Function: 1 Output



Function W: Interval Relay with Control Signal Off

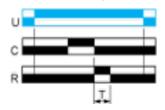
Description

After power-up and opening of the control contact, the output(s) close(s) for a timing period T.

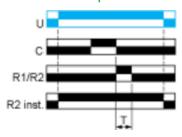
At the end of this timing period the output(s) revert(s) to its/their initial state.

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.).

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