Specifications





## Modular timing relay, 8 A, 1 CO, 1 s..100 h, time delay, 12...240 V AC/DC

Local distributor code: 397857445

RE17RMXMU

EAN Code: 3606480552786

### Main

Range Of Product	Harmony Timer Relays
Product Or Component Type	Multifunction relay
Discrete Output Type	Relay
Width	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

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	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 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	
Number Of Functions	9	
Time Delay Type	Ad, Ah, N, O, P, Pt, Tl, Tt, W	
Functionality	Multifunction	
Compatibility Code	RE17	

### Environment

Immunity To Microbreaks	20 ms
Standards	2006/95/EC
	2004/108/EC
	IEC 61000-6-1
	IEC 61000-6-4
	IEC 61000-6-2
	IEC 61000-6-3
	IEC 61812-1
Product Certifications	cULus
	GL
	CSA
Ambient Air Temperature For Storage	-3060 °C

al block) conforming to IEC 60529 g) conforming to IEC 60529 anel) conforming to IEC 60529 0150 Hz) conforming to IEC 60068-2-6 ms conforming to IEC 60068-2-27
ms conforming to IEC 60068-2-27
<b>,</b>
condensation conforming to IEC 60068-2-30
discharge immunity test: (in contact), level 3, 6 kV, conforming to IEC discharge immunity test: (in air), level 3, 8 kV, conforming to IEC v to electromagnetic fields: (80 MHz to 1 GHz), level 3, 10 V/m, o IEC 61000-4-3 t transient/burst immunity test: (capacitive connecting clip), level 3, 1 kV, o IEC 61000-4-4 t transient/burst immunity test: (direct), level 3, 2 kV, conforming to IEC cock waves immunity test: (differential mode), level 3, 1 kV, conforming to -5 cock waves immunity test: (common mode), level 3, 2 kV, conforming to -5 cock waves immunity test: (common mode), level 3, 2 kV, conforming to -5 kF disturbances: (0.1580 MHz), level 3, 10 V, conforming to IEC

## **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	3.000 cm
Package 1 Width	8.300 cm
Package 1 Length	9.600 cm
Package 1 Weight	80.000 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	3.669 kg

## **Contractual warranty**

Warranty

18 months

## Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

### Well-being performance



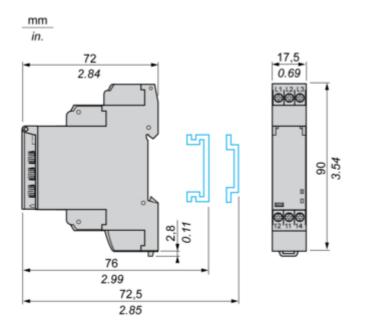
Rohs Exemption Information

### **Certifications & Standards**

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

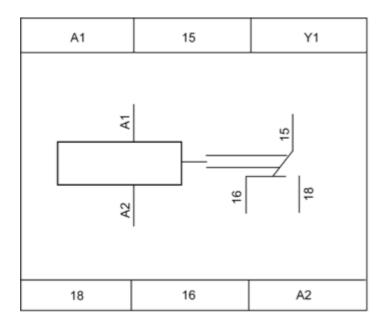
### **Dimensions Drawings**

### Width 17.5 mm

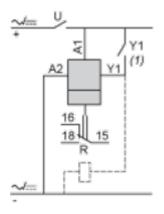


Connections and Schema

### Internal Wiring Diagram



#### Wiring Diagram



1) Contact Y1:

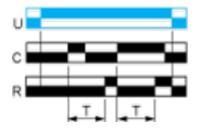
- $_{\bullet}\,$  Control for functions B, C, Ac, Bw, Ad, Ah, N, O, W, T, Tt.
- Partial stop for functions At, Ht and Pt.
- Function D if Di selected.
- Not used for functions A, H and P.

### **Technical Description**

### 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.



### **RE17RMXMU**

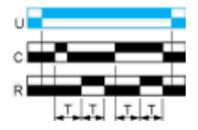
#### Function Ah : Pulse Delayed Relay (Single Cycle) with Control Signal

#### 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.

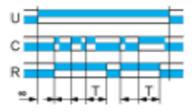


### Function N : Retriggerable Interval Relay with Control Signal On

#### Description

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

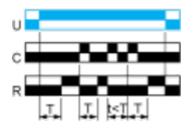
If the interval between two control pulses C is greater than the set timing period T, timing elapses normally and the output R closes at the end of the timing period. If the interval is not greater than the set timing period, the output R remains closed until this condition is met.



### Function 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 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.



P = 500 ms

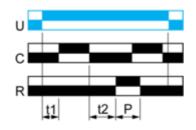
### **RE17RMXMU**

# 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

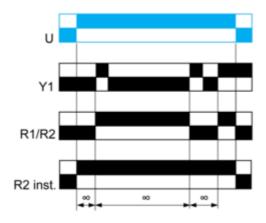


T = t1 + t2 + ... P = 500 ms

### Function TL : Bistable Relay with Control Signal On

#### Description

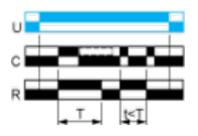
After power-up, pulsing or maintaining of control contact Y1 switches the output on. A second pulse on the control contact Y1 switches the output relay off.



### 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.

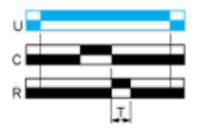


### Function W : Interval Relay with Control Signal Off

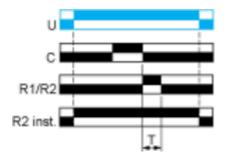
#### Description

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	
Ta -	Adjustable On-delay	
Tr -	Adjustable Off-delay	
U	Supply	