# RE17RMEMU

time delay relay 8 functions - 1 s..100 h - 24..240 V AC/DC - 1 OC





#### Main

TTT COLLEGE	
Range of product	Zelio Time
Product or component type	Modular timing relay
Discrete output type	Relay
Width	17.5 mm
Device short name	RE17R
Time delay type	A At B C D H H
Time delay range	0.11 s 110 h 110 min 110 s 660 min 660 s
Nominal output current	8 A

### Complementary

Cadmium free
Selector switch on front panel
24 V DC 24240 V AC at 50/60 Hz
0.851.1 Us
5060 Hz (+/- 5 %)
10 V
Screw terminals, clamping capacity: 2 x 0.22 x 1.5 mm² AWG 24AWG 16 (flexible) with cable end Screw terminals, clamping capacity: 1 x 0.21 x 2.5 mm² AWG 24AWG 14
(flexible) with cable end Screw terminals, clamping capacity: 2 x 0.52 x 2.5 mm² AWG 20AWG 14 (solid) without cable end Screw terminals, clamping capacity: 1 x 0.51 x 3.3 mm² AWG 20AWG 12 (solid) without cable end
0.61 N.m conforming to IEC 60947-1
Self-extinguishing
+/- 0.5 % conforming to IEC 61812-1
+/- 0.05 %/°C
+/- 0.2 %/V
+/- 10 % of full scale at 25 °C conforming to IEC 61812-1
30 ms typical 100 ms with load in parallel typical
100 MOhm at 500 V DC conforming to IEC 60664-1
120 ms on de-energisation typical
100 %
<= 32 VA at 240 V AC
<= 0.6 W at 24 V DC
10 mA 5 V DC

Maximum switching current	5 A AC/DC
Maximum switching voltage	250 V AC
Breaking capacity	<= 2000 VA
Operating frequency	10 Hz
Electrical durability	100000 cycles for resistive load (8 A at 250 V AC maximum)
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 (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 pulsing: relay de-energised, no timing in progress (except function Di-D, Li-L) (5 % ON and 95 % OFF) LED indicator flashing: timing in progress (80 % ON and 20 % OFF) LED indicator on steady: relay energised, no timing in progress
Product weight	0.07 kg

#### Environment

Environment	
Immunity to microbreaks	<= 20 ms
Standards	2004/108/EC EN 61000-6-1 EN 61000-6-2 EN 61000-6-3 EN 61000-6-4 IEC 61812-1 2006/95/EC
Product certifications	CSA CULus
Ambient air temperature for storage	-3060 °C
Ambient air temperature for operation	-2060 °C
IP degree of protection	IP50 (front panel) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP20 (terminal block) conforming to IEC 60529
Vibration resistance	20 m/s² (f = 10150 Hz) conforming to IEC 60068-2-6
Shock resistance	15 gn (duration = 11 ms) conforming to IEC 60068-2-27
Relative humidity	93 % without condensation conforming to IEC 60068-2-30
Electromagnetic compatibility	Conducted and radiated emissions conforming to EN 55022 class B Voltage dips and interruptions immunity test, 25/30 cycles at 70 % conforming to IEC 61000-4-11 Voltage dips and interruptions immunity test, 1 cycle at 0 % conforming to IEC 61000-4-11 Conducted RF disturbances, 0.1580 MHz at 10 V conforming to IEC 61000-4-6 level 3 1.2/50 µs shock waves immunity test, common mode at 2 kV conforming to IEC 61000-4-5 level 3 1.2/50 µs shock waves immunity test, differential mode at 1 kV conforming to IEC 61000-4-5 level 3 Electrical fast transient/burst immunity test, direct at 2 kV conforming to IEC 61000-4-4 level 3 Electrical fast transient/burst immunity test, capacitive connecting clip at 1 kV conforming to IEC 61000-4-4 level 3 Susceptibility to electromagnetic fields, 80 MHz to 1 GHz at 10 V/m conforming to IEC 61000-4-3 level 3 Electrostatic discharge immunity test, in air at 8 kV conforming to IEC 61000-4-2 level 3 Electrostatic discharge immunity test, in contact at 6 kV conforming to IEC 61000-4-2 level 3



# Offer Sustainability

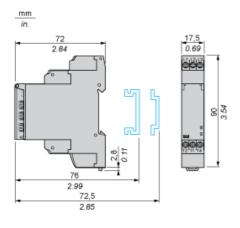
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1243 - Schneider Electric declaration of conformity
REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available 🖺 Download Product Environmental
Product end of life instructions	Available 🗟 Download End Of Life Manual



# Product data sheet Dimensions Drawings

# RE17RMEMU

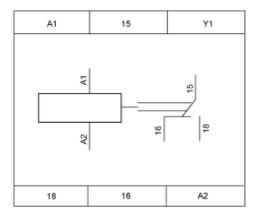
# Width 17.5 mm



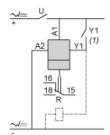
# Product data sheet Connections and Schema

# 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

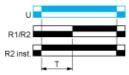
#### Description

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



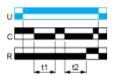
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

#### 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



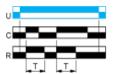
T = t1 + t2 + ...

#### 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

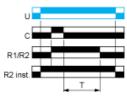
## Description

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



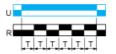
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

#### Function D: Symmetrical Flasher Relay (Starting Pulse Off)

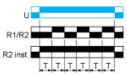
#### Description

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 Di: Symmetrical Flasher Relay (Starting Pulse On)

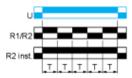
#### Description

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

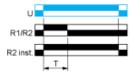
#### Description

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 (Summation) with Control Signal

#### Description

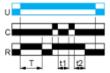
On energisation, the output R closes for the duration of a timing period T then reverts to its initial state.

Pulsing or maintaining control contact C will again close the output R.

Timing T is only active when control contact C is released and so the output R will not revert to its initial state until after a time t1 + t2 +...

The relay memorises the total, cumulative opening time of control contact C and, once the set time T is reached, the output R reverts to its initial state.

#### Function: 1 Output



T = t1 + t2 +...

#### Legend

Relay de-energised

Relay energised

Output open
Output closed

C Control contact

G Gate

R Relay or solid state output

R1/ 2 timed outputs R2

R2 The second output is instantaneous if the right position is selected

inst.

T Timing period

Ta Adjustable On-delay

Tr Adjustable Off-delay

U Supply