Product data sheet Characteristics

RE17RMEMU

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





Main

IVIAIII		
Range of product	Zelio Time	
Product or component type	Modular timing relay	1
Discrete output type	Relay	
Width	17.5 mm	
Device short name	RE17R	
Time delay type	Di C H D At Ht A B	debenmining e uitability or rafichility
Time delay range	110 s 660 min 110 h 660 s 110 min 0.11 s	od is not to a log of for
Nominal output current	8 A	

Complementary

Contacts material	Cadmium free	- 1
Control type	Selector switch on front panel	-600
[Us] rated supply voltage	24240 V AC at 50/60 Hz 24 V DC	- :
Voltage range	0.851.1 Us	- 10101
Supply frequency	5060 Hz (+/- 5 %)	_ 4
Input voltage	10 V	٥ -
Connections - terminals	Screw terminals, clamping capacity: 1 x 0.51 x 3.3 mm² AWG 20AWG 12 (solid) without cable end	oimer: Thi

	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 0.21 x 2.5 mm² AWG 24AWG 14 (flexible) with cable end
	Screw terminals, clamping capacity: 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
Impulse duration	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
Power consumption in W	<= 0.6 W at 24 V DC
Minimum switching current	10 mA at 5 V DC
Maximum switching current	5 A AC/DC
Maximum switching voltage	250 V AC
Breaking capacity	<= 2000 VA
Operating rate in Hz	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)
Delay response	< 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 on steady: relay energised, no timing in progress LED indicator flashing: timing in progress (80 % ON and 20 % OFF) LED indicator pulsing: relay de-energised, no timing in progress (except function Di-D, Li-L) (5 % ON and 95 % OFF)
Product 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	EN 61000-6-1
	2006/95/EC
	EN 61000-6-4
	EN 61000-6-2
	IEC 61812-1
	EN 61000-6-3
	2004/108/EC
Product certifications	CULus
	CSA
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 (duration = 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 at 6 kV conforming to IEC 61000-4-2 level 3 Electrostatic discharge immunity test, in air at 8 kV conforming to IEC 61000-4-2 level 3 Susceptibility to electromagnetic fields, 80 MHz to 1 GHz at 10 V/m conforming to IEC 61000-4-3 level 3 Electrical fast transient/burst immunity test, capacitive connecting clip at 1 kV conforming to IEC 61000-4-4 level 3 Electrical fast transient/burst immunity test, direct at 2 kV conforming to IEC 61000-4-4 level 3 1.2/50 µs shock waves immunity test, differential mode at 1 kV conforming to IEC 61000-4-5 level 3 1.2/50 µs shock waves immunity test, common mode at 2 kV conforming to IEC 61000-4-5 level 3 Conducted RF disturbances, 0.1580 MHz at 10 V conforming to IEC 61000-4-6 level 3 Voltage dips and interruptions immunity test, 1 cycle at 0 % conforming to IEC 61000-4-11 Voltage dips and interruptions immunity test, 25/30 cycles at 70 % conforming to IEC 61000-4-11 Conducted and radiated emissions conforming to EN 55022 class B

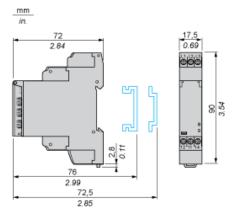
Offer Sustainability

Green Premium product	
Compliant - since 1243 - Schneider Electric declaration of conformity	
Schneider Electric declaration of conformity	
Reference not containing SVHC above the threshold	
Reference not containing SVHC above the threshold	
Available	
End of life manual	
Available	
	Compliant - since 1243 - Schneider Electric declaration of conformity Schneider Electric declaration of conformity Reference not containing SVHC above the threshold Reference not containing SVHC above the threshold Available Find of life manual

Product data sheet Dimensions Drawings

RE17RMEMU

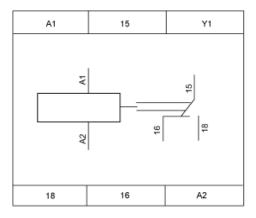
Width 17.5 mm



Product data sheet Connections and Schema

RE17RMEMU

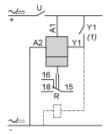
Internal Wiring Diagram



Product data sheet Connections and Schema

RE17RMEMU

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.

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



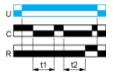
RE17RMEMU

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 +...

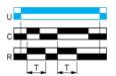
RE17RMEMU

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



RE17RMEMU

Function C: Off-Delay Relay with Control Signal

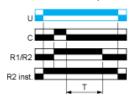
Description

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



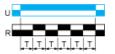
RE17RMEMU

Function D : Symmetrical Flasher Relay (Starting Pulse Off)

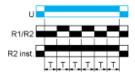
Description

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



RE17RMEMU

Function Di: Symmetrical Flasher Relay (Starting Pulse On)

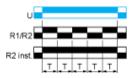
Description

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



RE17RMEMU

Function H: Interval Relay

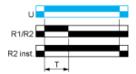
Description

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



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Function Ht: Interval Relay (Summation) with Control Signal

Description

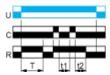
On energisation, the output R closes for the duration of a timing period T then reverts to its initial state.

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 + ...

RE17RMEMU

Legend

Relay de-energised

Relay energised

Output open

Output closed

C 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

T Timing periodTa - Adjustable On-delayTr - Adjustable Off-delay

U Supply