Product data sheet Characteristics

RE17RMMU time delay relay 10 functions - 1 s..100 h - 24..240 V AC - 1 OC





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Main			
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	D		
	Н		
	Bw	ŧ	
	A	Ţ	
	Di		
	At	-	
	Ht		
	В	1	
	Ac		
	C		
Time delay range	110 s		
, C	10100 h	-	
	0.11 s		
	660 s	-	
	660 min		
	110 min	4	
	110 h		
Nominal output current	8 A		
Complementer		-	
Complementary Contacts material	Cadmium free		
Control type	Selector switch on front panel		
[Us] rated supply voltage	24240 V AC at 50/60 Hz 24 V DC		
Voltage range	0.851.1 Us	-	
Supply frequency	5060 Hz (+/- 5 %)	F	
Input voltage	10 V		
May 7 2018			

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Connections - terminals	Screw terminals, clamping capacity: 1 x 0.51 x 3.3 mm² AWG 20AWG 12 (solid) without 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 0.21 x 2.5 mm ² AWG 24AWG 14 (flexible) with cable end Screw terminals, clamping capacity: 2 x 0.22 x 1.5 mm ² 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	8 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	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 (1.2/50 μs)	
Delay response	< 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 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, Ac, At, B, Bw, C, D, Di, H, Ht	
Functionality	Multifunction	
Compatibility code	RE17	

Environment

Immunity to microbreaks	<= 20 ms
Standards	2006/95/EC
	EN 61000-6-3
	EN 61000-6-2
	IEC 61812-1
	EN 61000-6-1
	EN 61000-6-4
	2004/108/EC
Product certifications	CSA
	GL
	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/s ² (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

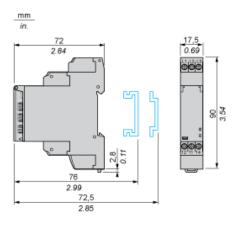
Offer Sustainability

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

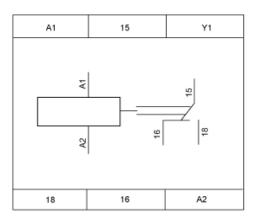
Product data sheet Dimensions Drawings

RE17RMMU

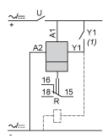
Width 17.5 mm



Internal Wiring Diagram



Wiring Diagram



1) Contact Y1:

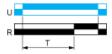
- Control for functions B, C, Ac, Bw, Ad, Ah, N, O, W, T, Tt.
- Partial stop for functions At, Ht and Pt.
- Function D if Di selected.
- Not used for functions A, H and P.

Function A : Power on Delay Relay

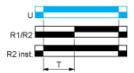
Description

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



Function Ac : On- and Off-Delay Relay with Control Signal

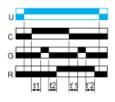
Description

After power-up, closing of the control contact C causes the timing period T to start (timing can be interrupted by operating the Gate control contact G). At the end of this timing period, the relay closes.

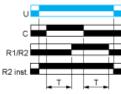
When control contact C re-opens, the timing T starts.

At the end of this timing period T, the output reverts to its initial position (timing can be interrupted by operating the Gate control contact G). The second output can be either timed or instantaneous.

Function: 1 Output



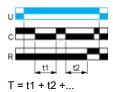
Function: 2 Outputs



Function At : Power on Delay Relay (Summation) with Control Signal

Description

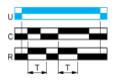
After power-up, the first opening of control contact C starts the timing. Timing can be interrupted each time control contact closes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output relay closes.



Function B : Interval Relay with Control Signal

Description

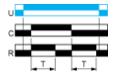
After power-up, pulsing or maintaining control contact C starts the timing T. The output R closes for the duration of the timing period T then reverts to its initial state.



Function Bw : Double Interval Relay with Control Signal

Description

On closing and opening of control contact C, the output R closes for the duration of the timing period T.

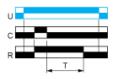


Function C : Off-Delay Relay with Control Signal

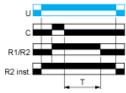
Description

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



Product data sheet **Technical Description**

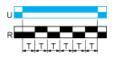
RE17RMMU

Function D : Symmetrical Flasher Relay (Starting Pulse Off)

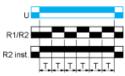
Description

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

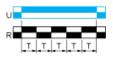


Function Di : Symmetrical Flasher Relay (Starting Pulse On)

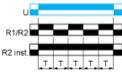
Description

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

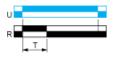


Function H : Interval Relay

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



Technical Description

Function Ht : Interval Relay (Summation) with Control Signal

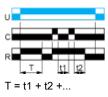
Description

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.



Product data sheet

RE17RMMU

Technical Description

Legend

Relay de-energised Relay energised Output open Output closed С Control contact G Gate Relay or solid state output R 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 Adjustable Off-delay Tr -U Supply