Product datasheet 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	t t
Product or component type	Modular timing relay	t
Discrete output type	Relay	
Width	17.5 mm	0
Device short name	RE17R	C
Time delay type	D	 0 7
	Ac	
	Н	
	C	
	A	ū
	Bw	
	Ht	Ę
	Di	
	В	, Z
	At	
Time delay range	110 s	
, ,	660 s	<u> </u>
	110 min	č
	660 min	<u>.</u> ۲
	0.11 s	Ē
	10100 h	ţ
	110 h	4
Nominal output current	8 A	i
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Complementary		
Contacts material	Cadmium free	+0
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	ۍ ۵ ۲
Supply frequency	5060 Hz (+/- 5 %)	⊢ چ
Input voltage	10 V	
Mar 08 2017		ć

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Connections - terminals	Screw terminals, clamping capacity: 1 x 0.51 x 3.3 mm ² 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	<= 32 VA at 240 V AC
Power consumption in W	<= 0.6 W at 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 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

Environment

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

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 Reference not containing SVHC above the threshold	

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

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

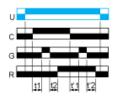
Description

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.

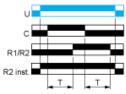
When control contact C re-opens, the timing T starts.

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



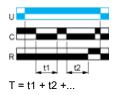
Function: 2 Outputs



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

Description

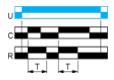
After power-up, the first opening of control contact C starts the timing. Timing can be interrupted each time control contact closes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output relay closes.



Function B : Interval Relay with Control Signal

Description

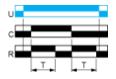
After power-up, pulsing or maintaining control contact C starts the timing T. The output R closes for the duration of the timing period T then reverts to its initial state.



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.

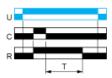


Function C : Off-Delay Relay with Control Signal

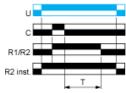
Description

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



Function D : Symmetrical Flasher Relay (Starting Pulse Off)

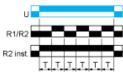
Description

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

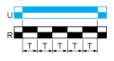


Function Di : Symmetrical Flasher Relay (Starting Pulse On)

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

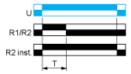
Function H : Interval Relay

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



Product datasheet

RE17RMMU

Technical Description

Function Ht : Interval Relay (Summation) with Control Signal

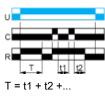
Description

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.



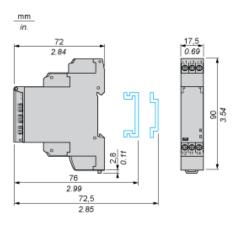
Legend

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 Adjustable Off-delay Tr U Supply

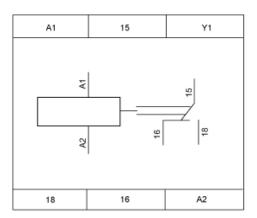
Product datasheet Dimensions Drawings

RE17RMMU

Width 17.5 mm



Internal Wiring Diagram

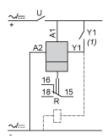


Product datasheet

RE17RMMU

Connections and Schema

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.