



## Main

Range of product	Zelio Time
Product or component type	Modular timing relay
Discrete output type	Solid state
Width	17.5 mm
Component name	RE17L
Time delay type	A
Time delay range	0.1...1 s 1...10 h 1...10 min 1...10 s 10...100 h 6...60 min 6...60 s
[Us] rated supply voltage	24...240 V AC/DC 50/60 Hz
Nominal output current	0.7 A

## Complementary

Control type	Selector switch on front panel
Voltage range	0.85...1.1 Us
Supply frequency	50...60 Hz (+/- 5 %)
Control signal pulse width	0.05 s typical
Insulation resistance	100 MOhm at 500 V DC conforming to IEC 60664-1
[Uimp] rated impulse withstand voltage	5 kV (1.2/50 μs)
Power on delay	< 100 ms
Connections - terminals	Screw terminals, clamping capacity: 2 x 0.2...2 x 1.5 mm <sup>2</sup> AWG24...AWG16 (flexible) with cable end Screw terminals, clamping capacity: 1 x 0.2...1 x 2.5 mm <sup>2</sup> AWG24...AWG14 (flexible) with cable end Screw terminals, clamping capacity: 2 x 0.5...2 x 2.5 mm <sup>2</sup> AWG20...AWG14 (solid) without cable end Screw terminals, clamping capacity: 1 x 0.5...1 x 3.3 mm <sup>2</sup> AWG20...AWG12 (solid) without cable end
Tightening torque	0.6...1 N.m conforming to IEC 60947-1
Dielectric strength	2.5 kV 1 mA/1 minute 50 Hz conforming to IEC 61812-1
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
Reset time	350 ms on de-energisation typical
On-load factor	100 %
Power consumption in VA	<= 3 VA at 240 V AC
Power consumption in W	<= 1.5 W at 240 V DC
Breaking capacity	0.7 A AC/DC at 20 °C 0.5 A AC/DC conforming to UL
Operating frequency	10 Hz
Maximum output current	20 A <= 10 ms
Minimum switching current	10 mA
Leakage current	< 5 mA
Maximum switching voltage	250 V AC/DC

Voltage drop	8 V 2-wire 4 V 3-wire
Electrical durability	100000000 cycles
Marking	CE
Creepage distance	4 kV/3 conforming to IEC 60664-1
Mounting position	Any position in relation to normal vertical mounting plane
Mounting support	35 mm DIN rail conforming to EN/IEC 60715
Product weight	0.068 kg

## Environment

Immunity to microbreaks	<= 20 ms
Derating factor	5 mA/°C
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 GL
Ambient air temperature for storage	-30...60 °C
Ambient air temperature for operation	-20...60 °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/s <sup>2</sup> (f = 10...150 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, 0.15...80 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

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Function A : Power on Delay Relay

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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.)

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Legend

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 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.

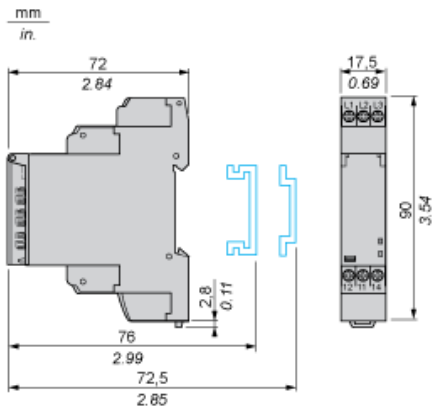
T Timing period

Ta Adjustable On-delay

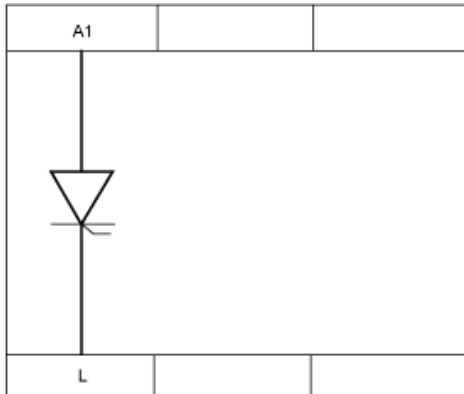
Tr Adjustable Off-delay

U Supply

Width 17.5 mm



## Internal Wiring Diagram



## Wiring Diagram

