



## Main

|                           |                                                                                         |
|---------------------------|-----------------------------------------------------------------------------------------|
| Range of product          | Zelio Time                                                                              |
| Product or component type | Modular timing relay                                                                    |
| Discrete output type      | Solid state                                                                             |
| Width                     | 0.69 in (17.5 mm)                                                                       |
| Component name            | RE17L                                                                                   |
| Time delay type           | L<br>Li                                                                                 |
| Time delay range          | 0.1...1 s<br>1...10 h<br>1...10 min<br>1...10 s<br>10...100 h<br>6...60 min<br>6...60 s |
| Nominal output current    | 0.7 A                                                                                   |

## Complementary

|                                        |                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control type                           | Selector switch on front panel                                                                                                                                                                                                                                                                                                                                                                                           |
| [Us] rated supply voltage              | 24...240 V AC at 50/60 Hz                                                                                                                                                                                                                                                                                                                                                                                                |
| Voltage range                          | 0.85...1.1 Us                                                                                                                                                                                                                                                                                                                                                                                                            |
| Supply frequency                       | 50...60 Hz (+/- 5 %)                                                                                                                                                                                                                                                                                                                                                                                                     |
| Input voltage                          | 7 V                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Impulse duration                       | 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)                                                                                                                                                                                                                                                                                                                                                                                                         |
| Delay response                         | < 100 ms                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Connections - terminals                | Screw terminals, clamping capacity: 1 x 0.5...1 x 3.3 mm² AWG 20...AWG 12 (solid) without cable end<br>Screw terminals, clamping capacity: 2 x 0.5...2 x 2.5 mm² AWG 20...AWG 14 (solid) without cable end<br>Screw terminals, clamping capacity: 1 x 0.2...1 x 2.5 mm² AWG 24...AWG 14 (flexible) with cable end<br>Screw terminals, clamping capacity: 2 x 0.2...2 x 1.5 mm² AWG 24...AWG 16 (flexible) with cable end |
| Tightening torque                      | 5.31...8.85 lbf.in (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                | 0...3 VA at 240 V AC                                                                                                                                                                                                                                                                                                                                                                                                     |
| Power consumption in W                 | <= 1.5 W at 240 V DC                                                                                                                                                                                                                                                                                                                                                                                                     |
| Breaking capacity                      | 0.5 A AC/DC conforming to UL<br>0.7 A AC/DC at 68 °F (20 °C)                                                                                                                                                                                                                                                                                                                                                             |
| Operating rate in Hz                   | 10 Hz                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Maximum output current                 | 20 A <= 10 ms                                                                                                                                                                                                                                                                                                                                                                                                            |
| Minimum switching current              | 10 mA                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Leakage current                        | < 5 mA                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|                           |                                                            |
|---------------------------|------------------------------------------------------------|
| Maximum switching voltage | 250 V AC                                                   |
| Voltage drop              | 4 V 3-wire<br>8 V 2-wire                                   |
| Electrical durability     | 100000000 cycles                                           |
| Marking                   | CE                                                         |
| Creepage distance         | 4 kV/3 conforming to IEC 60664-1                           |
| Safety reliability data   | MTTFd = 353.8 years<br>B10d = 320000                       |
| Mounting position         | Any position in relation to normal vertical mounting plane |
| Mounting support          | 35 mm DIN rail conforming to EN/IEC 60715                  |
| Product weight            | 0.15 lb(US) (0.068 kg)                                     |

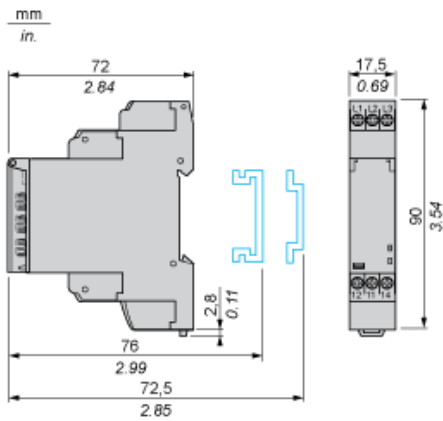
## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| immunity to microbreaks               | <= 20 ms                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| derating factor                       | 5 mA/°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| standards                             | 2004/108/EC<br>EN 61000-6-1<br>EN 61000-6-2<br>EN 61000-6-3<br>EN 61000-6-4<br>IEC 61812-1<br>2006/95/EC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| product certifications                | CSA<br>CULus<br>GL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ambient air temperature for storage   | -22...140 °F (-30...60 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| ambient air temperature for operation | -4...140 °F (-20...60 °C)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| IP degree of protection               | IP20 (terminal block) conforming to IEC 60529<br>IP40 (housing) conforming to IEC 60529<br>IP50 (front panel) conforming to IEC 60529                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| vibration resistance                  | 20 m/s² (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         | Electrostatic discharge immunity test, in contact at 6 kV conforming to IEC 61000-4-2 level 3<br>Electrostatic discharge immunity test, in air at 8 kV conforming to IEC 61000-4-2 level 3<br>Susceptibility to electromagnetic fields, 80 MHz to 1 GHz at 10 V/m conforming to IEC 61000-4-3 level 3<br>Electrical fast transient/burst immunity test, capacitive connecting clip at 1 kV conforming to IEC 61000-4-4 level 3<br>Electrical fast transient/burst immunity test, direct at 2 kV conforming to IEC 61000-4-4 level 3<br>1.2/50 µs shock waves immunity test, differential mode at 1 kV conforming to IEC 61000-4-5 level 3<br>1.2/50 µs shock waves immunity test, common mode at 2 kV conforming to IEC 61000-4-5 level 3<br>Conducted RF disturbances, 0.15...80 MHz at 10 V conforming to IEC 61000-4-6 level 3<br>Voltage dips and interruptions immunity test, 1 cycle at 0 % conforming to IEC 61000-4-11<br>Voltage dips and interruptions immunity test, 25/30 cycles at 70 % conforming to IEC 61000-4-11<br>Conducted and radiated emissions conforming to EN 55022 class B |

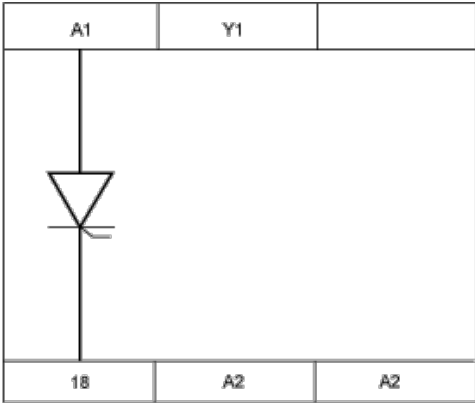
## Offer Sustainability

|                                                                       |                                                                                    |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Green Premium product                                                 | Green Premium product                                                              |
| Compliant - since 1650 - Schneider Electric declaration of conformity | Compliant - since 1650 - Schneider Electric declaration of conformity              |
| Reference not containing SVHC above the threshold                     | Reference not containing SVHC above the threshold                                  |
| Available                                                             | Available                                                                          |
| Available                                                             | Available                                                                          |
| WARNING: This product can expose you to chemicals including:          | WARNING: This product can expose you to chemicals including:                       |
| Lead and lead compounds, which is known to the State                  | Lead and lead compounds, which is known to the State of California to cause cancer |

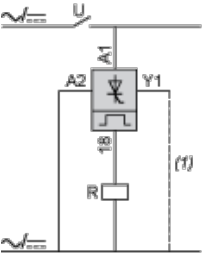
Width 17.5 mm



Internal Wiring Diagram



Wiring Diagram



1 Link A2-Y1 for function L only.

Function L : Asymmetrical Flasher Relay (Starting Pulse Off)

Description

Repetitive cycle comprises of two, independently adjustable timing periods  $T_a$  and  $T_r$ . Each timing period corresponds to a different state of the output R.

Function: 1 Output



## Function Li : Asymmetrical Flasher Relay (Starting Pulse On)

### Description

Repetitive cycle comprises of two, independently adjustable timing periods  $T_a$  and  $T_r$ . Each timing period corresponds to a different state of the output R.

### Function: 1 Output



### Legend

 Relay de-energised

 Relay energised

 Output open

 Output closed

C Control contact

G Gate

R Relay or solid state output

R1/R22 timed outputs

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

T Timing period

$T_a$  - Adjustable On-delay

$T_r$  - Adjustable Off-delay

U Supply