# Product data sheet
## Characteristics

# RE17LLBM
asymmetrical flashing relay - 0.1..1 s - 24..240 V AC - solid state output

## Main

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|---|---|
| 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 | L<br>Li |
| Time delay range | 1...10 h<br>10...100 h<br>0.1...1 s<br>6...60 min<br>6...60 s<br>1...10 min<br>1...10 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 |

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| | Screw terminals, clamping capacity: 2 x 0.2...2 x 1.5 mm² AWG 24...AWG 16 (flexible) with 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 | 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 20 °C |
| Operating rate in Hz | 10 Hz |
| Maximum output current | 20 A <= 10 ms |
| Minimum switching current | 10 mA |
| Leakage current | < 5 mA |
| 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 | 0.068 kg |

## Environment

| | |
|---|---|
| Immunity to microbreaks | <= 20 ms |
| Derating factor | 5 mA/°C |
| Standards | EN 61000-6-3<br>EN 61000-6-4<br>2004/108/EC<br>2006/95/EC<br>IEC 61812-1<br>EN 61000-6-2<br>EN 61000-6-1 |
| Product certifications | CSA<br>cULus<br>GL |
| Ambient air temperature for storage | -30...60 °C |
| Ambient air temperature for operation | -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 |

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|---|---|
| | 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

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

## Function L : Asymmetrical Flasher Relay (Starting Pulse Off)

### Description

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

### Function: 1 Output

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### Function: 1 Output

## Legend

Relay de-energised

Relay energised

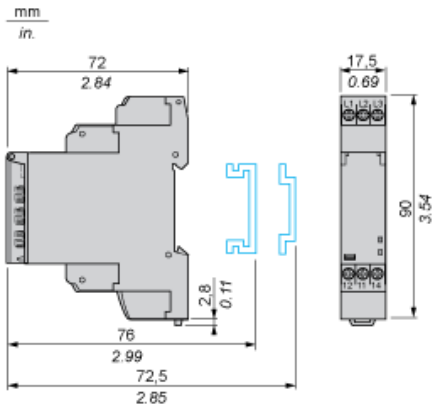
Output open

Output closed

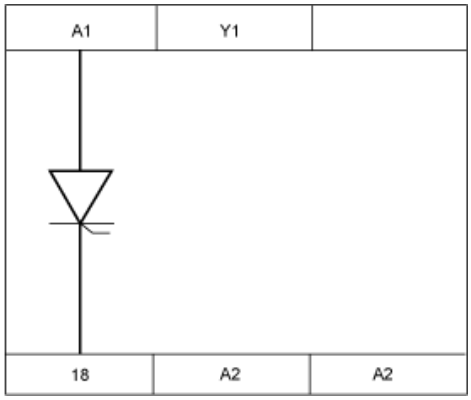
| | |
|---|---|
| C | Control contact |
| G | Gate |
| R | Relay or solid state output |
| R1/R2 | 2 timed outputs |
| R2 inst. | The second output is instantaneous if the right position is selected |
| T | Timing period |
| Ta | Adjustable On-delay |
| Tr | Adjustable Off-delay |
| U | Supply |

# RE17LLBM

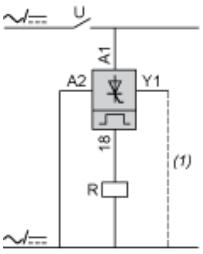
## Width 17.5 mm



## Internal Wiring Diagram



## Wiring Diagram




1 Link A2-Y1 for function L only.