

RE22R1MLMR

Asym. Flashing Timing Relay - 0.05s...300h - 24...
240V AC/DC - 1C/O



Main

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|---------------------------|----------------------|
| Range of product | Zelio Time |
| Product or component type | Modular timing relay |
| Discrete output type | Relay |
| Device short name | RE22 |
| Nominal output current | 8 A |

Complementary

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|--------------------------------|--|
| Contacts type and composition | 1 C/O timed contact, cadmium free |
| Time delay type | L Li Lt Lit |
| Time delay range | 0.05...1 s 0.3...3 s 1...10 s 10...100 s 3...30 h 3...30 min 3...30 s 30...300 h 30...300 min 30...300 s |
| Control type | Rotary knob Diagnostic button External potentiometer |
| [Us] rated supply voltage | 24...240 V AC/DC at 50/60 Hz |
| Input voltage | ≤ 2.4 V |
| Voltage range | 0.85...1.1 Us |
| Supply frequency | 50...60 Hz (+/- 5 %) |
| Connections - terminals | Screw terminals : 1 x 0.5...1 x 3.3 mm ² , AWG 20...AWG 12 solid cable without cable end Screw terminals : 2 x 0.5...2 x 2.5 mm ² , AWG 20...AWG 14 solid cable without cable end Screw terminals : 1 x 0.2...1 x 2.5 mm ² , AWG 24...AWG 14 flexible cable with cable end Screw terminals : 2 x 0.2...2 x 1.5 mm ² , AWG 24...AWG 16 flexible cable with cable end |
| Tightening torque | 0.6...1 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 |
| Minimum pulse duration | 30 ms 100 ms (with load in parallel) |
| Insulation resistance | 100 MOhm at 500 V DC conforming to IEC 60664-1 |
| Reset time | 120 ms (on de-energisation) |
| Immunity to microbreaks | ≤ 10 ms |
| Power consumption in VA | 3 VA at 240 V AC |

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|--|---|
| Power consumption in W | 1.5 W at 240 V DC |
| Switching capacity in VA | 2000 VA |
| Minimum switching current | 10 mA 5 V DC |
| Maximum switching current | 8 A |
| Maximum switching voltage | 250 V AC |
| Electrical durability | 100000 cycles for 8 A at 250 V AC-1 100000 cycles for 2 A at 24 V DC-1 |
| Mechanical durability | 10000000 cycles |
| [Uimp] rated impulse withstand voltage | 5 kV for 1.2...50 µs conforming to IEC 60664-1 |
| Delay response | < 100 ms |
| Creepage distance | 4 kV/3 conforming to IEC 60664-1 |
| Overvoltage category | III conforming to IEC 60664-1 |
| Safety reliability data | MTTFd = 194 years B10d = 180000 |
| Mounting position | Any position |
| Mounting support | 35 mm DIN rail conforming to EN/IEC 60715 |
| Status LED | Green LED backlight (steady) for dial pointer indication Yellow LED (steady) for output relay energised Yellow LED (fast flashing) for timing in progress and output relay de-energised Yellow LED (slow flashing) for timing in progress and output relay energised |
| Width | 22.5 mm |
| Product weight | 0.1 kg |

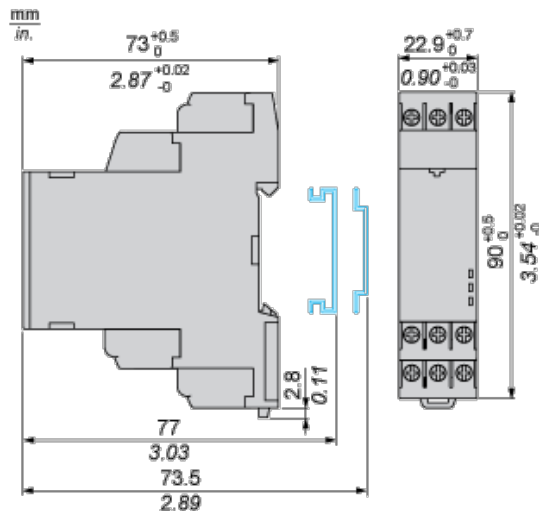
Environment

| | |
|---------------------------------------|---|
| dielectric strength | 2.5 kV for 1 mA/1 minute at 50 Hz between relay output and power supply with basic insulation conforming to IEC 61812-1 |
| standards | IEC 61812-1 UL 508 |
| directives | 2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive |
| product certifications | CCC CE CSA GL UL RCM EAC China RoHS |
| ambient air temperature for operation | -20...60 °C |
| ambient air temperature for storage | -40...70 °C |
| IP degree of protection | IP20 (terminals) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP50 (front face) conforming to IEC 60529 |
| pollution degree | 3 conforming to IEC 60664-1 |
| vibration resistance | 20 m/s ² (f = 10...150 Hz) conforming to IEC 60068-2-6 |
| shock resistance | 15 gn (not operating) (duration = 11 ms) conforming to IEC 60068-2-27 5 gn (in operation) (duration = 11 ms) conforming to IEC 60068-2-27 |
| relative humidity | 95 % at 25...55 °C |
| electromagnetic compatibility | Fast transients immunity test (test level: 1 kV, level 3 - capacitive connecting clip) conforming to IEC 61000-4-4 Surge immunity test (test level: 1 kV, level 3 - differential mode) conforming to IEC 61000-4-5 Surge immunity test (test level: 2 kV, level 3 - common mode) conforming to IEC 61000-4-5 Electrostatic discharge (test level: 6 kV, level 3 - contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge (test level: 8 kV, level 3 - air discharge) conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test (test level: 10 V/m, level 3 - 80 MHz...1 GHz) conforming to IEC 61000-4-3 Conducted RF disturbances (test level: 10 V, level 3 - 0.15...80 MHz) conforming to IEC 61000-4-6 Fast transient bursts (test level: 2 kV, level 3 - direct contact) conforming to IEC 61000-4-4 Immunity to microbreaks and voltage drops (test level: 30 % - 500 ms) conforming to |

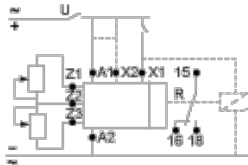
Offer Sustainability

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|----------------------------------|---|
| Sustainable offer status | Green Premium product |
| RoHS (date code: YYWW) | Compliant - since 1650 - Schneider Electric declaration of conformity |
| REACH | Reference not containing SVHC above the threshold |
| Product environmental profile | Available |
| Product end of life instructions | Available |

Dimensions



Wiring Diagram



Function L: Asymmetrical Flashing Relay (Starting Pulse Off)

Description

On energisation of power supply, output(s) R starts at its/their initial state for timing duration T_r then change(s) to output(s) R close(s) for the another timing duration T_a . This cycle is repeated indefinitely until power supply removal.

Function: 1 Output



Function Li: Asymmetrical Flashing Relay (Starting Pulse On)

Description

On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration T_a then change(s) to its/their initial state for timing duration T_r . This cycle is repeated indefinitely until power supply removal. Specially for RE22R1MLMR, this Li function can only be initiated by energizing X2 permanently.

Function: 1 Output with Function Selection



Function: 1 Output

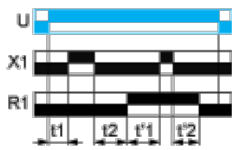


Function Lt: Asymmetrical Flashing Relay (Starting Pulse Off) & with Pause / Summation Control

Description

On energisation of power supply, output(s) R starts at its/their initial state for timing duration T_r and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T_r , then changes to output (s) R close(s). The output(s) R close state will remain for the same timing duration T_a and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T_a , the output(s) R revert(s) to its/their initial state. This cycle is repeated indefinitely until power supply removal.

Function: 1 Output



$$T = t_1 + t_2 + \dots$$

$$T = t'_1 + t'_2 + \dots$$

Function Lit: Asymmetrical Flashing Relay (Starting Pulse On) & Pause / Summation Control

Description

On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration T_a and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T_a , the output(s) R revert (s) to its/their initial state. The output(s) R at initial state will remain for timing duration T_r the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T_r , then changes to output(s) R close(s). This cycle is repeated indefinitely until power supply removal. Specially for RE22R1MLMR, this Li function can only be initiated by energizing X2 permanently

Function: 1 Output with Function Selection



$$T = t_1 + t_2 + \dots$$

$$T = t'_1 + t'_2 + \dots$$

Legend

- Relay de-energised
- Relay energised
- Output open
- Output closed

U - Supply

R1 - Timed output

Ta - Adjustable On-delay

Tr - Adjustable Off-delay

X1 - Pause / Summation control

X2 - Function Selection