



Main

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| Range of product | Harmony Timer Relays |
| Product or component type | Delay on de-energization relay |
| Discrete output type | Relay |
| Device short name | RE22 |
| Nominal output current | 5 A |

Complementary

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| Contacts type and composition | 1 C/O timed contact, cadmium free |
| Time delay type | K |
| Time delay range | 10...100 s 1...10 min 1...10 s 0.3...3 s 3...30 s 0.05...1 s 30...300 s |
| Control type | Rotary knob |
| [Us] rated supply voltage | 24...240 V AC/DC 50/60 Hz |
| Release 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 without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm ² (AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm ² (AWG 24...AWG 14) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm ² (AWG 24...AWG 16) flexible 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 |
| Insulation resistance | 100 MOhm at 500 V DC conforming to IEC 60664-1 |
| Recovery time | 100 ms on de-energisation |
| Immunity to microbreaks | 10 ms |
| Power consumption in VA | 3 VA at 240 V AC |
| Power consumption in W | 2 W at 240 V DC |
| Switching capacity in VA | 1250 VA |
| Minimum switching current | 10 mA at 5 V DC |
| Maximum switching current | 5 A |
| Maximum switching voltage | 250 V AC |
| Electrical durability | 100000 Cycles, 2 A at 24 V, DC-1 100000 cycles, 5 A at 250 V, AC-1 |

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| Mechanical durability | 10000000 cycles |
| Rated impulse withstand voltage | 5 kV for 1.2...50 µs conforming to IEC 60664-1 |
| Power on delay | 200 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 | LED backlight green (steady) for dial pointer indication LED yellow (steady) for output relay energised LED yellow (steady) for power ON |
| Width | 22.5 mm |
| Net weight | 0.1 kg |

Environment

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| 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 | 2006/95/EC - low voltage directive 2004/108/EC - electromagnetic compatibility |
| Product certifications | CCC CSA GL RCM CE EAC UL |
| Ambient air temperature for operation | -20...60 °C |
| Ambient air temperature for storage | -40...70 °C |
| IP degree of protection | IP40 housing: conforming to IEC 60529 IP50 front face: conforming to IEC 60529 IP20 terminals: 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 for 11 ms conforming to IEC 60068-2-27 5 gn in operation for 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 IEC 61000-4-11 Immunity to microbreaks and voltage drops - test level: 100 % (20 ms) conforming to IEC 61000-4-11 |

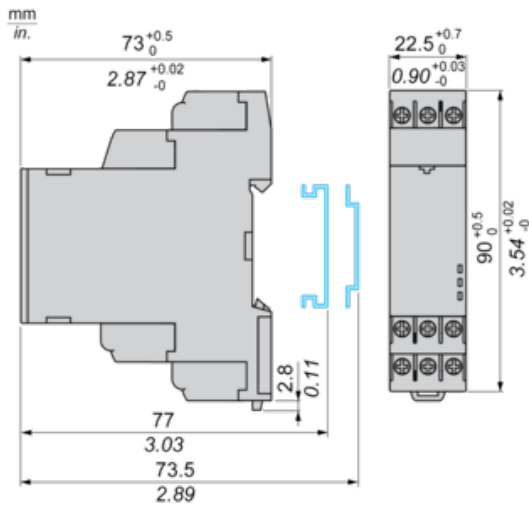
Packing Units

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| Package 1 Weight | 0.093 kg |
| Package 1 Height | 0.260 dm |
| Package 1 width | 0.820 dm |
| Package 1 Length | 0.950 dm |

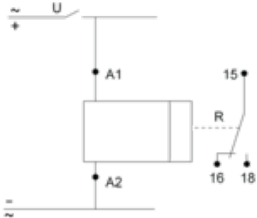
Offer Sustainability

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|----------------------------|--|
| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |

Dimensions



Wiring Diagram

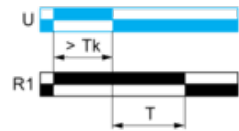


Function K: Delay On De-energization without Auxillary Supply

Description

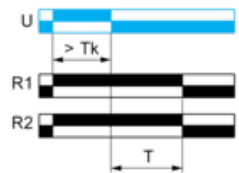
On energisation of power supply, the output(s) R close(s). On de-energisation of power supply, timing period T starts and at the end of this period, the output(s) R revert(s) to its/their initial state. The energization of power supply > T_k is necessary to sustain the timing period T.

Function: 1 Output



T_k > 1s

Function: 2 Outputs



T_k > 80ms

Legend

Relay de-energised

Relay energised

Output open

Output closed

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|---------|-----------------|
| U - | Supply |
| T - | Timing period |
| R1/R2 - | 2 timed outputs |