Specifications





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

RE22R1AMR

Main

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

Complementary

| Contacts type and composition | 1 C/O timed contact, cadmium free |
|--------------------------------|--|
| time delay type | Power on-delay |
| time delay range | 330 s |
| | 30300 s |
| | 10100 s |
| | 0.051 s |
| | 110 s |
| | 30300 h |
| | 30300 min |
| | 0.33 s |
| | |
| | 330 h |
| | 330 min |
| Control type | Rotary knob |
| | Diagnostic button |
| [Us] rated supply voltage | 24240 V AC/DC 50/60 Hz |
| Release input voltage | <= 2.4 V |
| Voltage range | 0.851.1 Us |
| Supply frequency | 5060 Hz +/- 5 % |
| Connections - terminals | Screw terminals, 1 x 0.51 x 3.3 mm ² (AWG 20AWG 12) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm ² (AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm ² (AWG 24AWG 14) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm ² (AWG 24AWG 16) flexible with cable end |
| Tightening torque | 0.61 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 |
| Control signal pulse width | 100 ms with load in parallel 30 ms |
| Insulation resistance | 100 MOhm at 500 V DC conforming to IEC 60664-1 |
| | - |

| Recovery time | 120 ms on de-energisation |
|---------------------------------|---|
| Immunity to microbreaks | 10 ms |
| Power consumption in VA | 3 VA at 240 V AC |
| Power consumption in W | 1.5 W at 240 V DC |
| Switching capacity in VA | 2000 VA |
| Minimum switching current | 10 mA at 5 V DC |
| Maximum switching current | 8 A |
| Maximum switching voltage | 250 V AC |
| Electrical durability | 100000 cycles, 8 A at 250 V, AC-1 100000 cycles, 2 A at 24 V, DC-1 |
| Mechanical durability | 1000000 cycles |
| Rated impulse withstand voltage | 5 kV for 1.250 µs conforming to IEC 60664-1 |
| Power on delay | 100 ms |
| Creepage distance | 4 kV/3 conforming to IEC 60664-1 |
| Overvoltage category | III conforming to IEC 60664-1 |
| Safety reliability data | MTTFd = 308.2 years B10d = 280000 |
| Mounting position | Any position |
| Mounting support | 35 mm DIN rail conforming to IEC 60715 |
| Status LED | LED backlight green (steady) for dial pointer indication LED yellow (steady) for output relay energised LED yellow (fast flashing) for timing in progress and output relay de-energised LED yellow (slow flashing) for timing in progress and output relay energised |
| Function available | A- Power on-delay relay-1 C/O Aw- Power on-delay relay w/ retrigger/restart-1 C/O |
| Width | 22.5 mm |
| Net weight | 0.1 kg |
| Control type | With test button |
| Number of functions | 2 |
| | |

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 | UL 508 IEC 61812-1 |
| Directives | 2006/95/EC - low voltage directive 2004/108/EC - electromagnetic compatibility |
| Product certifications | CE UL GL CCC EAC RCM CSA |
| Ambient air temperature for operation | -2060 °C |
| Ambient air temperature for storage | -4070 °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= 10150 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 2555 °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 MHz1 GHz) conforming to IEC 61000-4-3 |
| | Conducted RF disturbances - test level: 10 V level 3 (0.1580 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

| Unit Type of Package 1 | PCE |
|------------------------------|-----------|
| Number of Units in Package 1 | 1 |
| Package 1 Height | 2.6 cm |
| Package 1 Width | 8.2 cm |
| Package 1 Length | 9.5 cm |
| Package 1 Weight | 92.0 g |
| Unit Type of Package 2 | S02 |
| Number of Units in Package 2 | 40 |
| Package 2 Height | 15.0 cm |
| Package 2 Width | 30.0 cm |
| Package 2 Length | 40.0 cm |
| Package 2 Weight | 4.261 kg |
| Unit Type of Package 3 | P06 |
| Number of Units in Package 3 | 640 |
| Package 3 Height | 75.0 cm |
| Package 3 Width | 60.0 cm |
| Package 3 Length | 80.0 cm |
| Package 3 Weight | 76.676 kg |

Contractual warranty

Warranty

18 months

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Yes

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance



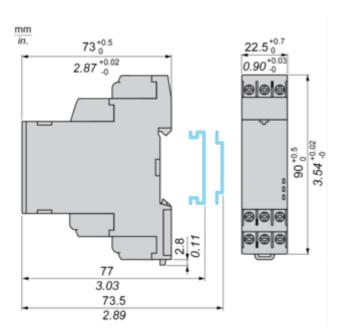
Rohs Exemption Information

Certifications & Standards

| Reach Regulation | REACh Declaration |
|--------------------------|--|
| Eu Rohs Directive | Pro-active compliance (Product out of EU RoHS legal scope) |
| China Rohs Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |

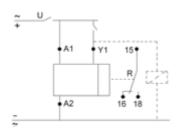
Dimensions Drawings

Dimensions



Connections and Schema

Wiring Diagram



Technical Description

Function A: Power On-Delay

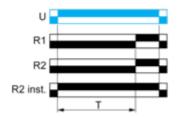
Description

On energisation of power supply, the timing period T starts. After timing, the output(s) R close(s). The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



Function: 2 Outputs

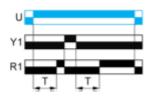


Function Aw : Power On-Delay With Retrigger / Restart Control

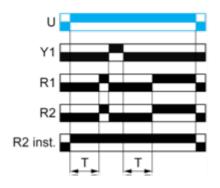
Description

On energisation of power supply, the timing period T starts.At the end of the timing period T, the output(s) R close(s).Energization of Y1 makes the output(s) R open(s).Deenergization of Y1 restarts timing period T.At the end of timing period T, the output(s) R close(s).The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST")

Function: 1 Output



Function: 2 Outputs



Legend

| Relay de-energised | |
|--------------------|--|
| Relay energised | |
| Output open | |
| Output closed | |
| U - | Supply |
| Т- | Timing period |
| R1/R2 - | 2 timed outputs |
| R2 inst | The second output is instantaneous if the right position is selected |
| Y1 - | Retrigger / Restart control |