



## Main

|                           |                      |
|---------------------------|----------------------|
| 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

|                                        |                                                                                                                         |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Contacts type and composition          | 2 C/O timed contact                                                                                                     |
| Time delay type                        | A<br>At                                                                                                                 |
| 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                                 |
| Control type                           | Front panel rotary knob                                                                                                 |
| [Us] rated supply voltage              | 24 V DC<br>24...240 V AC                                                                                                |
| Voltage range                          | 0.85...1.1 Us                                                                                                           |
| Supply frequency                       | 50...60 Hz (+/- 5 %)                                                                                                    |
| Connections - terminals                | Screw terminals : 2 x 1.5 mm <sup>2</sup> with cable end<br>Screw terminals : 2 x 2.5 mm <sup>2</sup> without 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<br>100 ms (under load)                                                                                            |
| 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                | 50 VA at 240 V AC                                                                                                       |
| Power consumption in W                 | 0.7 W at 24 V DC                                                                                                        |
| Breaking capacity                      | 2000 VA                                                                                                                 |
| Minimum switching current              | 10 mA 5 V                                                                                                               |
| Maximum switching current              | 8 mA                                                                                                                    |
| Maximum switching voltage              | 250 V                                                                                                                   |
| Electrical durability                  | 100000 cycles for 8 A at 250 V AC for resistive load                                                                    |
| Mechanical durability                  | 10000000 cycles                                                                                                         |
| [Uimp] rated impulse withstand voltage | 5 kV for 1.2...50 µs conforming to IEC 60664-1<br>5 kV conforming to IEC 61812-1                                        |
| Delay response                         | < 100 ms                                                                                                                |

|                         |                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------|
| Safety reliability data | MTTFd = 182.6 years<br>B10d = 170000                                                                             |
| Mounting position       | Any position in relation to normal vertical mounting plane                                                       |
| Mounting support        | 35 mm DIN rail conforming to EN/IEC 60715                                                                        |
| Status LED              | Green LED (flashing) for timing in progress<br>Green LED (steady) for power ON<br>Yellow LED for relay energised |
| Width                   | 22.5 mm                                                                                                          |
| Product weight          | 0.09 kg                                                                                                          |

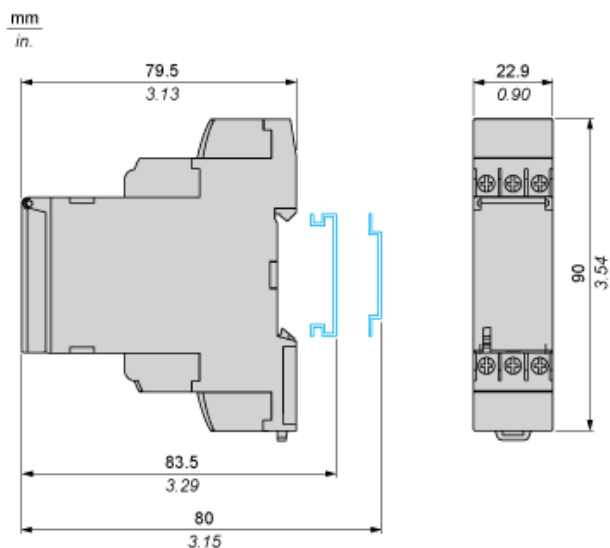
## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dielectric strength                   | 2.5 kV for 1 mA/1 minute at 50 Hz conforming to IEC 61812-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| standards                             | EN 61000-6-1<br>EN 61000-6-2<br>EN 61000-6-3<br>EN 61000-6-4<br>IEC 61812-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| directives                            | 2004/108/EC - electromagnetic compatibility<br>2006/95/EC - low voltage directive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| product certifications                | CCC<br>CE<br>CSA<br>CULus<br>GL<br>RCM<br>EAC<br>China RoHS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ambient air temperature for operation | -20...60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| ambient air temperature for storage   | -30...60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| IP degree of protection               | IP20 (terminal block) conforming to IEC 60529<br>IP40 (housing) conforming to IEC 60529<br>IP40 (front face) conforming to IEC 60529                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| vibration resistance                  | 20 m/s <sup>2</sup> (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         | Conducted and radiated emissions, class B conforming to EN 55022<br>Electrostatic discharge immunity test (test level: 6 kV, level 3 - contact discharge) conforming to EN/IEC 61000-4-2<br>Electrostatic discharge immunity test (test level: 8 kV, level 3 - air discharge) conforming to EN/IEC 61000-4-2<br>Fast transients immunity test (test level: 1 kV, level 3 - capacitive connecting clip) conforming to IEC 61000-4-4<br>Fast transients immunity test (test level: 2 kV, level 3 - direct contact) conforming to IEC 61000-4-4<br>Surge immunity test (test level: 1 kV, level 3 - differential mode) conforming to IEC 61000-4-5<br>Surge immunity test (test level: 2 kV, level 3 - common mode) conforming to IEC 61000-4-5<br>Radiated radio-frequency electromagnetic field immunity test (test level: 10 V, level 3 - 0.15...80 MHz) conforming to IEC 61000-4-6<br>Electromagnetic field immunity test (test level: 10 V/m, level 3 - 80 MHz...1 GHz) conforming to IEC 61000-4-3<br>Immunity to microbreaks and voltage drops (test level: 30 % - 500 ms) conforming to IEC 61000-4-11<br>Immunity to microbreaks and voltage drops (test level: 100 % - 20 ms) conforming to IEC 61000-4-11 |

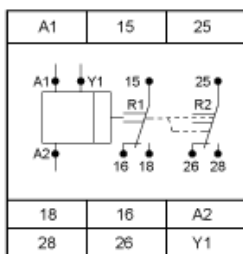
## Offer Sustainability

|                                  |                                                                       |
|----------------------------------|-----------------------------------------------------------------------|
| 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                                                             |

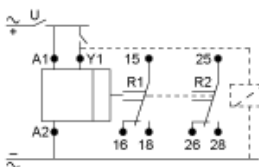
## Dimensions



## Internal Wiring Diagram



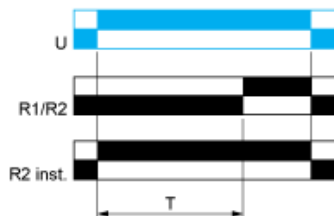
## Wiring Diagram



## Function A : Power on Delay Relay

### Description

The timing period T begins on energization. After timing, the output(s) relay close(s).

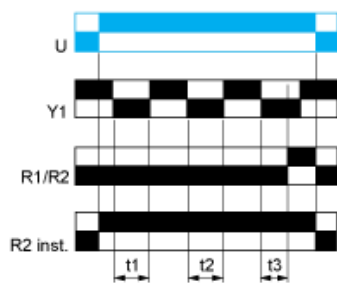


2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

## Function At : Power on Delay Relay (Summation) with Control Signal

### Description

After power-up, the first opening of control contact Y1 starts the timing. Timing can be interrupted each time control contact closes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output relay closes.



$$T = t1 + t2 + t3$$

### Legend

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

Y1 : Control contact

R1/R2 : 2 timed outputs

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

:

T : Timing period

U : Supply