



Price\* : 33.53 GBP



## 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  | 1 C/O timed contact                                                                                                   |
| Time delay type                | Q                                                                                                                     |
| Time delay range               | 1...10 h<br>10...100 h<br>6...60 s<br>1...10 min<br>0.1...1 s<br>1...10 s<br>6...60 min                               |
| Control type                   | Rotary knob front panel                                                                                               |
| [Us] rated supply voltage      | 380...440 V AC<br>230...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                                                             |
| Control signal pulse width     | 30 ms                                                                                                                 |

|                                 |                                                                                                                  |
|---------------------------------|------------------------------------------------------------------------------------------------------------------|
|                                 | 100 ms under load                                                                                                |
| 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         | 8 VA at 230...240 V<br>17 VA at 380...440 V                                                                      |
| Breaking capacity               | 2000 VA                                                                                                          |
| Minimum switching current       | 10 mA at 5 V                                                                                                     |
| Maximum switching current       | 8 mA                                                                                                             |
| Maximum switching voltage       | 250 V                                                                                                            |
| Electrical durability           | 100000 cycles for resistive load, 8 A at 250 V, AC                                                               |
| Mechanical durability           | 10000000 cycles                                                                                                  |
| Rated impulse withstand voltage | 5 kV for 1.2...50 µs conforming to IEC 60664-1<br>5 kV conforming to IEC 61812-1                                 |
| Power on delay                  | 100 ms                                                                                                           |
| Safety reliability data         | B10d = 260000<br>MTTFd = 273.9 years                                                                             |
| Mounting position               | Any position in relation to normal vertical mounting plane                                                       |
| Mounting support                | 35 mm DIN rail conforming to EN/IEC 60715                                                                        |
| Status LED                      | LED green (flashing) for timing in progress<br>LED green (steady) for power ON<br>LED yellow for relay energised |
| Width                           | 22.5 mm                                                                                                          |
| Product weight                  | 0.093 kg                                                                                                         |

## Environment

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dielectric strength                   | 2.5 kV for 1 mA/1 minute at 50 Hz conforming to IEC 61812-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Standards                             | EN 61000-6-4<br>IEC 61812-1<br>EN 61000-6-1<br>EN 61000-6-3<br>EN 61000-6-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Directives                            | 2004/108/EC - electromagnetic compatibility<br>2006/95/EC - low voltage directive                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Product certifications                | CULus<br>RCM<br>CSA<br>China RoHS<br>EAC<br>GL<br>CCC<br>CE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Ambient air temperature for operation | -20...60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Ambient air temperature for storage   | -30...60 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| IP degree of protection               | IP40 housing: conforming to IEC 60529<br>IP20 terminal block: conforming to IEC 60529<br>IP40 front face: conforming to IEC 60529                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Vibration resistance                  | 20 m/s² (f= 10...150 Hz) conforming to IEC 60068-2-6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Shock resistance                      | 15 gn for 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 - 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 |

Electromagnetic field immunity test - test level: 10 V/m level 3 (80 MHz...1 GHz) conforming to IEC 61000-4-3  
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  
Conducted and radiated emissions class B conforming to EN 55022

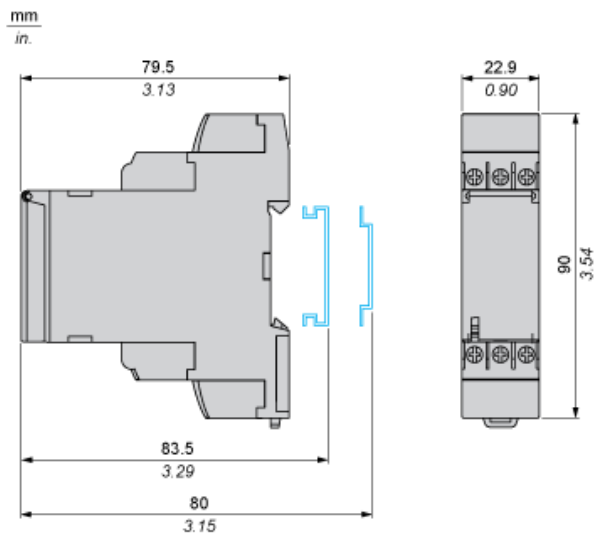
### Offer Sustainability

|                            |                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------|
| Sustainable offer status   | Green Premium product                                                                             |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope)<br><a href="#">EU RoHS Declaration</a> |
| Mercury free               | Yes                                                                                               |
| RoHS exemption information | <a href="#">Yes</a>                                                                               |
| China RoHS Regulation      | <a href="#">China RoHS declaration</a>                                                            |
| Environmental Disclosure   | <a href="#">Product Environmental Profile</a>                                                     |
| Circularity Profile        | <a href="#">End of Life Information</a>                                                           |

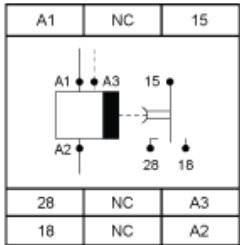
### Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

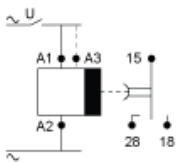
Dimensions



Internal Wiring Diagram



Wiring Diagram

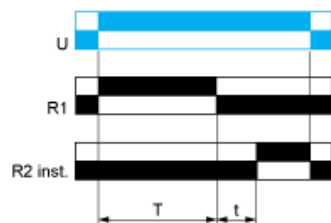


## Star-delta Timing Relay

### Description

After power-up, the star contact closes instantly and timing T starts, At the end of timing period, the star contact opens.

After a t ms pause, the delta contact closes and remains in this position.



t : 20, 40, 60, 80, 100, 120, 140 ms

### Legend

Relay de-energised

Relay energised

Output open

Output closed

R1 : Star contact output

R2 : Delta contact output

T : Timing period

t : Delay to switch ON Delta contact output

U : Supply