



## 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, cadmium free  |
| Time delay type                | A<br>Aw  |
| Time delay range               | 0.05...1 s<br>0.3...3 s<br>1...10 s<br>10...100 s<br>3...30 h<br>3...30 min<br>3...30 s<br>30...300 h<br>30...300 min<br>30...300 s  |
| Control type                   | Rotary knob<br>Diagnostic button   |
| [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 <sup>2</sup> , AWG 20...AWG 12 solid cable without cable end<br>Screw terminals : 2 x 0.5...2 x 2.5 mm <sup>2</sup> , AWG 20...AWG 14 solid cable without cable end<br>Screw terminals : 1 x 0.2...1 x 2.5 mm <sup>2</sup> , AWG 24...AWG 14 flexible cable with cable end<br>Screw terminals : 2 x 0.2...2 x 1.5 mm <sup>2</sup> , AWG 24...AWG 16 flexible cable with cable end |
| Tightening torque              | 5.31...8.85 lbf.in (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 (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   |
| 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<br>100000 cycles for 2 A at 24 V DC-1   |
| Mechanical durability                  | 10000000 cycles   |
| [Uimp] rated impulse withstand voltage | 5 kV 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 = 308.2 years<br>B10d = 280000  |
| Mounting position                      | Any position  |
| Mounting support                       | 35 mm DIN rail conforming to EN/IEC 60715   |
| Status LED                             | Green LED backlight (steady) dial pointer indication<br>Yellow LED (steady) output relay energised<br>Yellow LED (fast flashing) timing in progress and output relay de-energised<br>Yellow LED (slow flashing) timing in progress and output relay energised |
| Width                                  | 0.89 in (22.5 mm)   |
| Product weight                         | 0.22 lb(US) (0.1 kg)  |

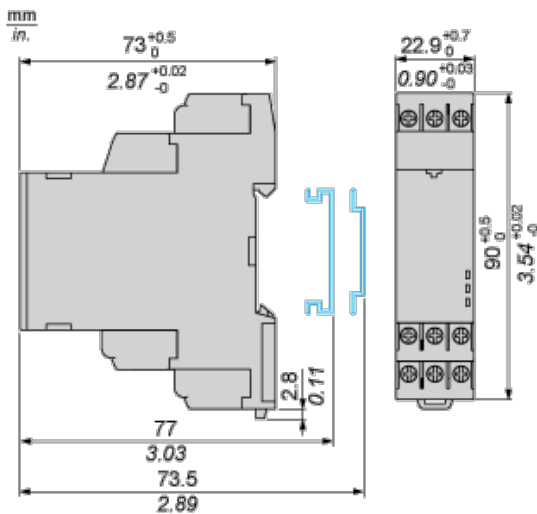
## Environment

|                                       |  |
|---------------------------------------|--|
| 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<br>UL 508  |
| directives                            | 2004/108/EC - electromagnetic compatibility<br>2006/95/EC - low voltage directive  |
| product certifications                | CCC<br>CE<br>CSA<br>GL<br>UL<br>RCM<br>EAC<br>China RoHS   |
| ambient air temperature for operation | -4...140 °F (-20...60 °C)  |
| ambient air temperature for storage   | -40...158 °F (-40...70 °C)   |
| IP degree of protection               | IP20(terminals) conforming to IEC 60529<br>IP40 (housing) conforming to IEC 60529<br>IP50 (front face) conforming to IEC 60529   |
| pollution degree                      | 3 conforming to IEC 60664-1  |
| vibration resistance                  | 20 m/s <sup>2</sup> (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<br>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<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>Electrostatic discharge (test level: 6 kV, level 3 - contact discharge) conforming to IEC 61000-4-2<br>Electrostatic discharge (test level: 8 kV, level 3 - air discharge) conforming to IEC 61000-4-2<br>Radiated radio-frequency electromagnetic field immunity test (test level: 10 V/m, level 3 - 80 MHz...1 GHz) conforming to IEC 61000-4-3<br>Conducted RF disturbances (test level: 10 V, level 3 - 0.15...80 MHz) conforming to IEC 61000-4-6<br>Fast transient bursts (test level: 2 kV, level 3 - direct contact) conforming to IEC 61000-4-4<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 |

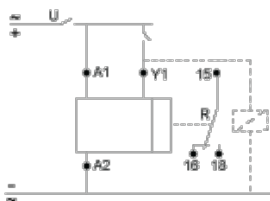
## Offer Sustainability

|  |  |
|--|--|
| Green Premium product  | Green Premium product  |
| Compliant - since 1650 - Schneider Electric declaration of conformity  | Compliant - since 1650 - Schneider Electric declaration of conformity  |
| Reference not containing SVHC above the threshold  | Reference not containing SVHC above the threshold  |
| Available  | Available  |
| Available  | Available  |
| WARNING: This product can expose you to chemicals including:   | WARNING: This product can expose you to chemicals including:   |
| Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. | Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. |
| For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    | For more information go to <a href="http://www.p65warnings.ca.gov">www.p65warnings.ca.gov</a>                                    |

## Dimensions



## Wiring Diagram



## Function A: Power On-Delay

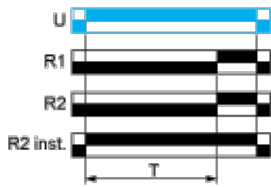
### Description

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

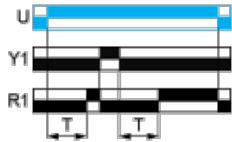


## Function Aw : Power On-Delay With Retrigger / Restart Control

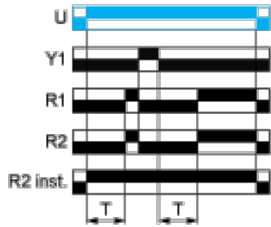
### Description

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

T - Timing period

R1/R22 timed outputs

-

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

-

Y1 - Retrigger / Restart control

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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