

## RE17RCMU

Modular timing relay, 8 A, 1 CO, 1 s..100 h, off delay, 24...240 V AC



### Main

|                           |   |
|---------------------------|---|
| Range of product          | Zelio Time  |
| Product or component type | Modular timing relay  |
| Discrete output type      | Relay   |
| Width                     | 17.5 mm   |
| Device short name         | RE17R   |
| Time delay type           | C   |
| Time delay range          | 6...60 s<br>1...10 h<br>1...10 min<br>6...60 min<br>0.1...1 s<br>1...10 s<br>10...100 h |
| Nominal output current    | 8 A   |

### Complementary

|                               |  |
|-------------------------------|--|
| Contacts type and composition | 1 C/O  |
| Contacts material             | Cadmium free   |
| Height                        | 90 mm  |
| Depth                         | 72 mm  |
| Control type                  | Selector switch front panel  |
| [Us] rated supply voltage     | 24...240 V AC 50/60 Hz<br>24 V DC  |
| Voltage range                 | 0.85...1.1 Us  |
| Supply frequency              | 50...60 Hz +/- 5 %   |
| Release of input voltage      | 10 V   |
| Connections - terminals       | Screw terminals, 1 x 0.5...1 x 3.3 mm <sup>2</sup> (AWG 20...AWG 12) solid without cable end<br>Screw terminals, 2 x 0.5...2 x 2.5 mm <sup>2</sup> (AWG 20...AWG 14) solid without cable end<br>Screw terminals, 1 x 0.2...1 x 2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible with cable end |

Screw terminals, 2 x 0.2...2 x 1.5 mm<sup>2</sup> (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   |
| Control signal pulse width             | 100 ms with load in parallel typical<br>30 ms typical   |
| Insulation resistance                  | 100 MOhm at 500 V DC conforming to IEC 60664-1  |
| Reset time                             | 120 ms on de-energisation typical   |
| On-load factor                         | 100 %   |
| Power consumption in VA                | 0...32 VA at 240 V AC   |
| Maximum power consumption in W         | 0.6 W at 24 V DC  |
| Minimum switching current              | 10 mA at 5 V DC   |
| Maximum switching current              | 8 A AC/DC   |
| Maximum switching voltage              | 250 V AC  |
| Breaking capacity                      | 2000 VA   |
| Operating frequency                    | 10 Hz   |
| Electrical durability                  | 100000 cycles (8 A at 250 V AC maximum) for resistive load  |
| Mechanical durability                  | 10000000 cycles   |
| Dielectric strength                    | 2.5 kV 1 mA/1 minute 50 Hz conforming to IEC 61812-1  |
| [Uimp] rated impulse withstand voltage | 5 kV during 1.2/50 µs   |
| Power on delay                         | 100 ms  |
| Marking                                | CE  |
| Creepage distance                      | 4 kV/3 conforming to IEC 60664-1  |
| Safety reliability data                | B10d = 270000<br>MTTFd = 296.8 years  |
| Mounting position                      | Any position in relation to normal vertical mounting plane  |
| Mounting support                       | 35 mm DIN rail conforming to EN/IEC 60715   |
| Local signalling                       | LED indicator for on steady: relay energised, no timing in progress<br>LED indicator for flashing: timing in progress 80 % ON and 20 % OFF<br>LED indicator for pulsing: relay de-energised, no timing in progress (except function Di-D, Li-L) 5 % ON and 95 % OFF |
| Net weight                             | 0.07 kg   |
| Time delay type                        | C   |
| Functionality                          | Off-delay timing  |
| Compatibility code                     | RE17  |

## Environment

|                                       |   |
|---------------------------------------|---|
| Immunity to microbreaks               | 20 ms   |
| Standards                             | EN 61000-6-4<br>EN 61000-6-2<br>EN 61000-6-3<br>2004/108/EC<br>2006/95/EC<br>IEC 61812-1<br>EN 61000-6-1                              |
| Product certifications                | CULus<br>GL<br>CSA  |
| Ambient air temperature for storage   | -30...60 °C   |
| Ambient air temperature for operation | -20...60 °C   |
| IP degree of protection               | IP20 (terminal block) conforming to IEC 60529<br>IP40 (housing) conforming to IEC 60529<br>IP50 (front panel) 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 for 11 ms conforming to IEC 60068-2-27  |
| Relative humidity             | 93 % without condensation conforming to IEC 60068-2-30  |
| Electromagnetic compatibility | <p>Electrostatic discharge immunity test: (in contact), level 3, 6 kV, conforming to IEC 61000-4-2</p> <p>Electrostatic discharge immunity test: (in air), level 3, 8 kV, conforming to IEC 61000-4-2</p> <p>Susceptibility to electromagnetic fields: (80 MHz to 1 GHz), level 3, 10 V/m, conforming to IEC 61000-4-3</p> <p>Electrical fast transient/burst immunity test: (capacitive connecting clip), level 3, 1 kV, conforming to IEC 61000-4-4</p> <p>Electrical fast transient/burst immunity test: (direct), level 3, 2 kV, conforming to IEC 61000-4-4</p> <p>1.2/50 µs shock waves immunity test: (differential mode), level 3, 1 kV, conforming to IEC 61000-4-5</p> <p>1.2/50 µs shock waves immunity test: (common mode), level 3, 2 kV, conforming to IEC 61000-4-5</p> <p>Conducted RF disturbances: (0.15...80 MHz), level 3, 10 V, conforming to IEC 61000-4-6</p> <p>Voltage dips and interruptions immunity test: (1 cycle), 0 %, conforming to IEC 61000-4-11</p> <p>Voltage dips and interruptions immunity test: (25/30 cycles), 70 %, conforming to IEC 61000-4-11</p> <p>Conducted and radiated emissions: , class B, conforming to EN 55022</p> |

### Packing Units

|                              |          |
|------------------------------|----------|
| Unit Type of Package 1       | PCE      |
| Number of Units in Package 1 | 1        |
| Package 1 Weight             | 77 g     |
| Package 1 Height             | 7.8 cm   |
| Package 1 width              | 2.6 cm   |
| Package 1 Length             | 9.5 cm   |
| Unit Type of Package 2       | S02      |
| Number of Units in Package 2 | 40       |
| Package 2 Weight             | 3.774 kg |
| Package 2 Height             | 15 cm    |
| Package 2 width              | 30 cm    |
| Package 2 Length             | 40 cm    |

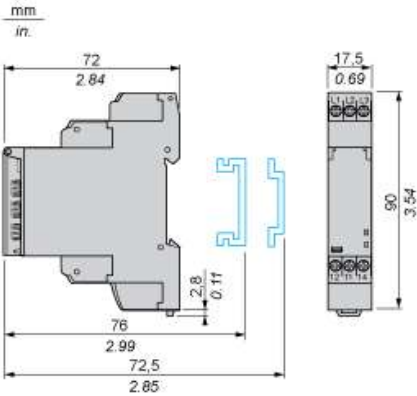
### Offer Sustainability

|                            |   |
|----------------------------|---|
| 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>   |

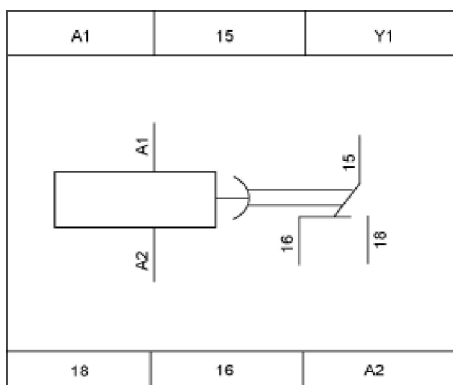
### Contractual warranty

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

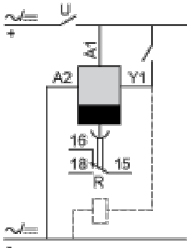
Width 17.5 mm



## Internal Wiring Diagram



Wiring Diagram



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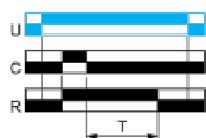
Function C : Off-Delay Relay with Control Signal

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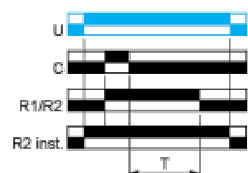
Description

After power-up and closing of the control contact C, the output R closes. When control contact C re-opens, timing T starts. At the end of the timing period, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



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

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Legend

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Relay de-energised

Relay energised

Output open

Output closed

C Control contact

G Gate

R Relay or solid state output

R1/R2 2 timed outputs

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

T Timing period

Ta - Adjustable On-delay

Tr - Adjustable Off-delay

U Supply