# Product data sheet

**RE17RAMU**

on-delay timing relay - 1 s..100 h - 24..240 V AC - 1 OC

Product availability: Stock - Normally stocked in distribution facility

Price**: 42.90 USD

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## Characteristics

### Main

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range of product</td>
<td>Zelio Time</td>
</tr>
<tr>
<td>Product or component type</td>
<td>Modular timing relay</td>
</tr>
<tr>
<td>Discrete output type</td>
<td>Relay</td>
</tr>
<tr>
<td>Width</td>
<td>0.69 in (17.5 mm)</td>
</tr>
<tr>
<td>Device short name</td>
<td>RE17R</td>
</tr>
<tr>
<td>Time delay type</td>
<td>At</td>
</tr>
<tr>
<td>Time delay range</td>
<td>1...10 min</td>
</tr>
<tr>
<td></td>
<td>10...100 h</td>
</tr>
<tr>
<td></td>
<td>0.1...1 s</td>
</tr>
<tr>
<td></td>
<td>6...60 s</td>
</tr>
<tr>
<td></td>
<td>6...60 min</td>
</tr>
<tr>
<td></td>
<td>1...10 s</td>
</tr>
<tr>
<td></td>
<td>1...10 h</td>
</tr>
<tr>
<td>Nominal output current</td>
<td>8 A</td>
</tr>
</tbody>
</table>

### Complementary

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contacts type and composition</td>
<td>1 C/O</td>
</tr>
<tr>
<td>Contacts material</td>
<td>Cadmium free</td>
</tr>
<tr>
<td>Height</td>
<td>3.54 in (90 mm)</td>
</tr>
<tr>
<td>Depth</td>
<td>2.83 in (72 mm)</td>
</tr>
<tr>
<td>Control type</td>
<td>Selector switch front panel</td>
</tr>
<tr>
<td>[Us] rated supply voltage</td>
<td>24...240 V AC 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>24 V DC</td>
</tr>
<tr>
<td>Voltage range</td>
<td>0.85...1.1 Us</td>
</tr>
<tr>
<td>Supply frequency</td>
<td>50...60 Hz +/- 5 %</td>
</tr>
<tr>
<td>Release of input voltage</td>
<td>10 V</td>
</tr>
<tr>
<td>Connections - terminals</td>
<td>Screw terminals, 1 x 0.5...1 x 3.3 mm² AWG 20...AWG 12) solid without cable end</td>
</tr>
<tr>
<td></td>
<td>Screw terminals, 2 x 0.5...2 x 2.5 mm² AWG 20...AWG 14) solid without cable end</td>
</tr>
</tbody>
</table>

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Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications.
### Tightening torque
5.31…8.85 lbf.in (0.6…1 N.m) IEC 60947-1

### Housing material
Self-extinguishing

### Repeat accuracy
+/- 0.5 % IEC 61812-1

### Temperature drift
+/- 0.05 %/°C

### Voltage drift
+/- 0.2 %/V

### Setting accuracy of time delay
+/- 10 % of full scale 25 °C IEC 61812-1

### Control signal pulse width
100 ms with load in parallel typical
30 ms typical

### Insulation resistance
100 MOhm 500 V DC IEC 60664-1

### Reset time
120 ms on de-energisation typical

### On-load factor
100 %

### Power consumption in VA
0…32 VA 240 V AC

### Maximum power consumption in W
0.6 W 24 V DC

### Minimum switching current
10 mA 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
1000000 cycles resistive 8 A 250 V AC

### Mechanical durability
10000000 cycles

### Dielectric strength
2.5 kV 1 mA/1 minute 50 Hz IEC 61812-1

### [Uimp] rated impulse withstand voltage
5 kV 1.2/50 µs

### Power on delay
100 ms

### Marking
CE

### Creepage distance
4 kV/3 IEC 60664-1

### Safety reliability data
B10d = 270000
MTTFd = 296.8 years

### Mounting position
Any position in relation to normal vertical mounting plane

### Mounting support
35 mm DIN rail EN/IEC 60715

### Local signalling
LED indicator on steady: relay energised, no timing in progress
LED indicator 80 % ON and 20 % OFF flashing: timing in progress
LED indicator 5 % ON and 95 % OFF pulsing: relay de-energised, no timing in progress (except function Di-D, Li-L)

### Net weight
0.15 lb(US) (0.07 kg)

### Time delay type
A, At

### Functionality
On-delay timing

### Compatibility code
RE17

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### Environment

#### Immunity to microbreaks
20 ms

#### Standards
2006/95/EC
2004/108/EC
IEC 61812-1
EN 61000-6-3
EN 61000-6-1
EN 61000-6-4
EN 61000-6-2

#### Product certifications
CSA
CULus
GL

#### Ambient air temperature for storage
-22…140 °F (-30…60 °C)

#### Ambient air temperature for operation
-4…140 °F (-20…60 °C)

#### IP degree of protection
IP20 IEC 60529 terminal block
IP40 IEC 60529 housing
IP50 IEC 60529 front panel
Vibration resistance 20 m/s² 10…150 Hz IEC 60068-2-6
Shock resistance 15 gn 11 ms IEC 60068-2-27
Relative humidity 93 % without condensation IEC 60068-2-30

Electromagnetic compatibility
- Electrostatic discharge immunity test 6 kV in contact) level 3 IEC 61000-4-2
- Electrostatic discharge immunity test 8 kV in air) level 3 IEC 61000-4-2
- Susceptibility to electromagnetic fields 10 V/m 0.8 MHz to 1 GHz) level 3 IEC 61000-4-3
- Electrical fast transient/burst immunity test 1 kV capacitive connecting clip) level 3 IEC 61000-4-4
- Electrical fast transient/burst immunity test 2 kV direct) level 3 IEC 61000-4-4
- 1.2/50 µs shock waves immunity test 1 kV differential mode) level 3 IEC 61000-4-5
- 1.2/50 µs shock waves immunity test 2 kV common mode) level 3 IEC 61000-4-5
- Conducted RF disturbances 10 V 0.15…80 MHz) level 3 IEC 61000-4-6
- Voltage dips and interruptions immunity test 0 % 1 cycle) IEC 61000-4-11
- Voltage dips and interruptions immunity test 70 % 25/30 cycles) IEC 61000-4-11
- Conducted and radiated emissions class B EN 55022

Ordering and shipping details
Category 22370 - RE, RM MISC TIMERS & COUNTERS
Discount Schedule CP2
GTIN 00785901284864
Package weight(Lbs) 0.08 kg (0.17 lb(US))
Returnability Yes
Country of origin ID

Offer Sustainability
Sustainable offer status Green Premium product
REACH Regulation REACH Declaration
EU RoHS Directive Pro-active compliance (Product out of EU RoHS legal scope)
EU RoHS Declaration
Mercury free Yes
RoHS exemption information Yes
China RoHS Regulation China RoHS declaration
Environmental Disclosure Product Environmental Profile
Circularity Profile End of Life Information
WEEE The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
Width 17.5 mm
Internal Wiring Diagram

<table>
<thead>
<tr>
<th>A1</th>
<th>15</th>
<th>Y1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A2</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>A1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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This table represents the connections for device RE17RAMU, with connections labeled A1, Y1, and A2.
Wiring Diagram
Function A: Power on Delay Relay

Description
The timing period T begins on energisation. After timing, the output(s) R close(s). 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.)
Function At: Power on Delay Relay (Summation) with Control Signal

Description
After power-up, the first opening of control contact C 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.

Function: 1 Output

$$T = t_1 + t_2 + ...$$
Legend

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