

# RE17RAMU

Harmony, Modular timing relay, 8 A, 1 CO, 1 s..100 h, on delay, 24 V DC / 24...240 V AC/DC



Product availability: Stock - Normally stocked in distribution facility

Price\*: 42.90 USD



## Main

|                           |   |
|---------------------------|---|
| Range of product          | Harmony Timer Relays  |
| Product or component type | Dual function relay   |
| Discrete output type      | Relay   |
| Width                     | 0.69 In (17.5 mm)   |
| Device short name         | RE17R   |
| Time delay type           | Power on-delay  |
| Time delay range          | 1...10 min<br>10...100 h<br>0.1...1 s<br>6...60 s<br>6...60 min<br>1...10 s<br>1...10 h |
| Nominal output current    | 8 A   |

## Complementary

|                               |  |
|-------------------------------|--|
| Contacts type and composition | 1 C/O  |
| Contacts material             | Cadmium free   |
| Height                        | 3.54 In (90 mm)  |
| Depth                         | 2.83 In (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 %   |
| 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<br>Screw terminals, 2 x 0.2...2 x 1.5 mm <sup>2</sup> AWG 24...AWG 16) flexible with cable end |
| 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  |
| Impulse duration                       | 100 ms with load in parallel typical<br>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 rate in Hz                   | 10 Hz   |
| Electrical durability                  | 100000 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  |
| Maximum delay response                 | 100 Ms  |
| Marking                                | CE  |
| Creepage distance                      | 4 kV/3 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 on steady: relay energised, no timing in progress<br>LED indicator 80 % ON and 20 % OFF flashing: timing in progress<br>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  |

## Environment

|                                       |  |
|---------------------------------------|--|
| Immunity to microbreaks               | 20 Ms  |
| Standards                             | 2006/95/EC<br>2004/108/EC<br>IEC 61812-1<br>EN 61000-6-3<br>EN 61000-6-1<br>EN 61000-6-4<br>EN 61000-6-2 |
| Product certifications                | CSA<br>CULus<br>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)<br>IP40 IEC 60529 housing)<br>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<br>Electrostatic discharge immunity test 8 kV in air) level 3 IEC 61000-4-2<br>Susceptibility to electromagnetic fields 10 V/m 80 MHz to 1 GHz) level 3 IEC 61000-4-3<br>Electrical fast transient/burst immunity test 1 kV capacitive connecting clip) level 3 IEC 61000-4-4<br>Electrical fast transient/burst immunity test 2 kV direct) level 3 IEC 61000-4-4<br>1.2/50 µs shock waves immunity test 1 kV differential mode) level 3 IEC 61000-4-5<br>1.2/50 µs shock waves immunity test 2 kV common mode) level 3 IEC 61000-4-5<br>Conducted RF disturbances 10 V 0.15...80 MHz) level 3 IEC 61000-4-6<br>Voltage dips and interruptions immunity test 0 % 1 cycle) IEC 61000-4-11<br>Voltage dips and interruptions immunity test 70 % 25/30 cycles) IEC 61000-4-11<br>Conducted and radiated emissions class B EN 55022 |

### Ordering and shipping details


|                       |                                       |
|-----------------------|---------------------------------------|
| Category              | 22370 - RE, RM MISC TIMERS & COUNTERS |
| Discount Schedule     | CP2                                   |
| GTIN                  | 03606480552670                        |
| Nbr. of units in pkg. | 1                                     |
| Package weight(Lbs)   | 2.72 Oz (77 g)                        |
| Returnability         | Yes                                   |
| Country of origin     | ID                                    |

### Packing Units

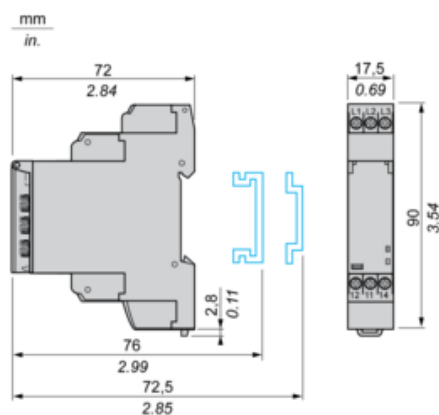
|                              |                          |
|------------------------------|--------------------------|
| Unit Type of Package 1       | PCE                      |
| Package 1 Height             | 1.06 In (2.7 cm)         |
| Package 1 width              | 3.07 In (7.8 cm)         |
| Package 1 Length             | 3.74 In (9.5 cm)         |
| Unit Type of Package 2       | S02                      |
| Number of Units in Package 2 | 40                       |
| Package 2 Weight             | 8.10 Lb(US) (3.676 kg)   |
| Package 2 Height             | 5.91 In (15 cm)          |
| Package 2 width              | 11.81 In (30 cm)         |
| Package 2 Length             | 15.75 In (40 cm)         |
| Unit Type of Package 3       | P06                      |
| Number of Units in Package 3 | 640                      |
| Package 3 Weight             | 143.43 Lb(US) (65.06 kg) |
| Package 3 Height             | 29.53 In (75 cm)         |
| Package 3 width              | 31.50 In (80 cm)         |
| Package 3 Length             | 23.62 In (60 cm)         |

### Offer Sustainability

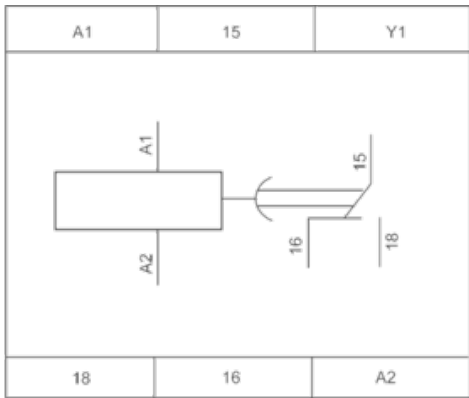
|                            |   |
|----------------------------|---|
| Sustainable offer status   | Green Premium product   |
| California proposition 65  | WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| REACH Regulation           | <a href="#">REACH Declaration</a>   |
| EU RoHS Directive          | Pro-active compliance (Product out of EU RoHS legal scope) <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>     |
| WEEE                | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins. |

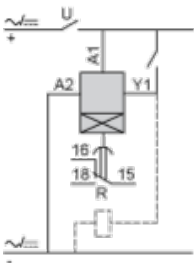
Width 17.5 mm



Internal Wiring Diagram



Wiring Diagram



## Function A : Power on Delay Relay

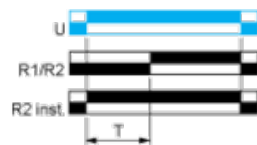
### Description

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



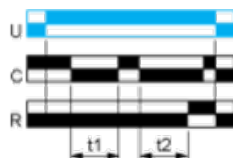
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

## 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



$T = t_1 + t_2 + \dots$

## 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               |

Product Life Status : **Commercialised**