# Product data sheet

Specifications



## single function relay, Harmony Timer Relays, 8A, 2CO, 0.05s... 300h, off delay, 24...240V AC DC

RE22R2CMR

**Product availability: Stock - Normally stocked in distribution facility**

## Main

| | |
|---|---|
| **Range of Product** | Harmony Timer Relays |
| **Discrete output type** | Relay |
| **Product or Component Type** | Modular timing relay |
| **Device short name** | RE22 |
| **nominal output current** | 8 A |

## Complementary

| | |
|---|---|
| **Contacts type and composition** | 1 C/O timed or instantaneous contact, cadmium free<br>2 C/O timed contact, cadmium free |
| **Time delay type** | Off-delay |
| **Time delay range** | 10...100 s<br>3...30 h<br>1...10 s<br>3...30 s<br>30...300 h<br>0.3...3 s<br>0.05...1 s<br>30...300 min<br>30...300 s<br>3...30 min |
| **Control type** | Rotary knob<br>Diagnostic button |
| **[Us] rated supply voltage** | 24...240 V AC/DC 50/60 Hz |
| **Release 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 mm² AWG 20...AWG 12) solid without cable end<br>Screw terminals, 2 x 0.5...2 x 2.5 mm² AWG 20...AWG 14) solid without cable end<br>Screw terminals, 1 x 0.2...1 x 2.5 mm² AWG 24...AWG 14) flexible with cable end<br>Screw terminals, 2 x 0.2...2 x 1.5 mm² AWG 24...AWG 16) flexible with cable end |
| **Tightening torque** | 5.3…8.9 lbf.in (0.6…1 N.m) IEC 60947-1 |
| **Housing material** | Polycarbonate |
| **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 |
| **Time delay type** | Off-delay - C- Off-delay relay w/ control signal |
| **Control signal pulse width** | 100 ms with load in parallel<br>30 ms |

Price is “List Price” and may be subject to a trade discount – check with your local distributor or retailer for actual price.

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

| | |
|---|---|
| **Insulation resistance** | 100 MOhm 500 V DC IEC 60664-1 |
| **Recovery time** | 120 ms on de-energisation |
| **Immunity to microbreaks** | 10 ms |
| **Power consumption in VA** | 3 VA 240 V AC |
| **Power consumption in W** | 1.5 W 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, 8 A at 250 V, AC-1<br>100000 cycles, 2 A at 24 V, DC-1 |
| **Mechanical durability** | 10000000 cycles |
| **Rated impulse withstand voltage** | 5 kV 1.2…50 µs IEC 60664-1 |
| **Power on delay** | 100 ms |
| **Creepage distance** | 4 kV/3 IEC 60664-1 |
| **Overvoltage category** | III conforming to IEC 60664-1 |
| **Safety reliability data** | MTTFd = 251.1 years<br>B10d = 230000 |
| **Mounting position** | Any position |
| **Mounting support** | 35 mm DIN rail conforming to 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 |
| **Function available** | C- Off-delay relay w/ control signal-2 C/O |
| **Width** | 0.9 in (22.5 mm) |
| **Product Weight** | 0.231 lb(US) (0.105 kg) |
| **Control Type** | With test button |
| **Number of functions** | 1 |

# Environment

| | |
|---|---|
| **Dielectric strength** | 2.5 kV 1 mA/1 minute 50 Hz between relay output and power supply basic insulation<br>IEC 61812-1 |
| **Standards** | UL 508<br>IEC 61812-1 |
| **Directives** | 2006/95/EC - low voltage directive<br>2004/108/EC - electromagnetic compatibility |
| **Product Certifications** | CSA<br>CCC<br>RCM<br>CE<br>GL<br>UL<br>EAC |
| **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** | IP40 housing: conforming to IEC 60529<br>IP20 terminals: conforming to IEC 60529<br>IP50 front panel: conforming to IEC 60529 |
| **Pollution degree** | 3 IEC 60664-1 |
| **Vibration resistance** | 20 m/s² (f= 10…150 Hz) conforming to IEC 60068-2-6 |
| **Shock resistance** | 15 gn not operating 11 ms IEC 60068-2-27<br>5 gn in operation 11 ms IEC 60068-2-27 |
| **Relative humidity** | 95 % 77…131 °F (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 |

## Ordering and shipping details

| | |
|---|---|
| **Category** | US10CP222376 |
| **Discount Schedule** | 0CP2 |
| **GTIN** | 3606480792502 |
| **Returnability** | Yes |
| **Country of origin** | ID |

## Packing Units

| | |
|---|---|
| **Unit Type of Package 1** | PCE |
| **Nbr. of units in pkg.** | 1 |
| **Package 1 Height** | 3.2 in (8.2 cm) |
| **Package 1 Width** | 3.7 in (9.5 cm) |
| **Package 1 Length** | 1.02 in (2.6 cm) |
| **Package weight(Lbs)** | 3.8 oz (108.0 g) |
| **Unit Type of Package 2** | S02 |
| **Number of Units in Package 2** | 40 |
| **Package 2 Height** | 5.9 in (15.0 cm) |
| **Package 2 Width** | 11.8 in (30.0 cm) |
| **Package 2 Length** | 15.7 in (40.0 cm) |
| **Package 2 Weight** | 10.527 lb(US) (4.775 kg) |
| **Unit Type of Package 3** | PAL |
| **Number of Units in Package 3** | 640 |
| **Package 3 Height** | 19.7 in (50.0 cm) |

| | |
|---|---|
| **Package 3 Width** | 23.6 in (60.0 cm) |
| **Package 3 Length** | 31.5 in (80.0 cm) |
| **Package 3 Weight** | 189.99 lb(US) (86.18 kg) |

## Contractual warranty

| | |
|---|---|
| **Warranty (in months)** | 18 |

## Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

Environmental Data explained >

How we assess product sustainability >

### Environmental footprint

| | |
|---|---|
| Total lifecycle Carbon footprint | **64 kg CO2 eq.** |
| Carbon footprint of the manufacturing phase [A1 to A3] | **2 kg CO2 eq.** |
| Carbon footprint of the distribution phase [A4] | **0 kg CO2 eq.** |
| Carbon footprint of the installation phase [A5] | **0 kg CO2 eq.** |
| Carbon footprint of the use phase [B2, B3, B4, B6] | **62 kg CO2 eq.** |
| Carbon footprint of the end-of-life phase [C1 to C4] | **0.1 kg CO2 eq.** |
| Environmental Disclosure | Product Environmental Profile |

## Use Better

### Materials and Substances

| | |
|---|---|
| Packaging made with recycled cardboard | **Yes** |
| Packaging without single use plastic | **Yes** |
| SCIP Number | **7bdc2711-0ad2-427c-8ece-532c5e9f09d7** |
| EU RoHS Directive | Compliant By Exemption |
| REACh Regulation | Reference contains Substances of Very High Concern above the threshold |
| 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 www.P65Warnings.ca.gov** |

## Use Longer

### Lifetime extension

| | |
|---|---|
| Repair | **No** |

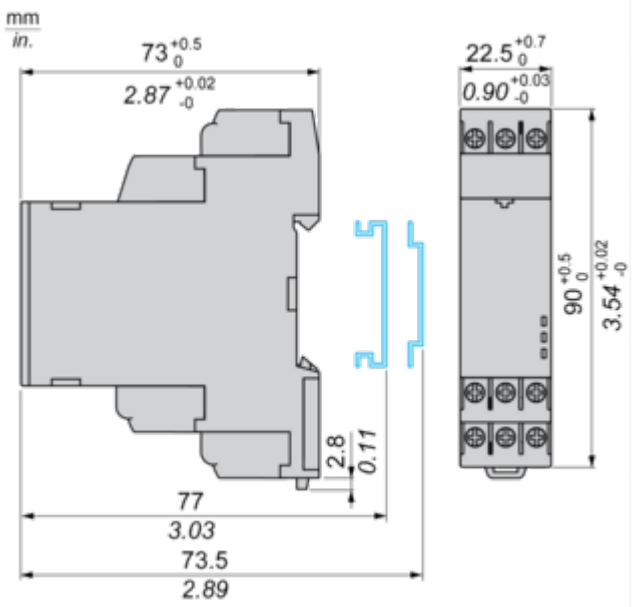
## Use Again

### Repack and remanufacture

| | |
|---|---|
| Circularity Profile | End of Life Information |
| Take-back | **No** |

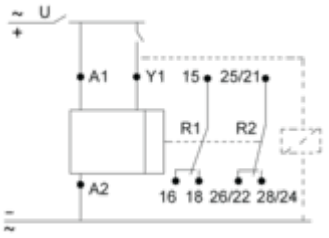
Dimensions Drawings

**Dimensions**



Connections and Schema

## Wiring Diagram



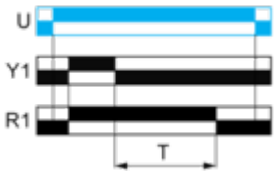
Technical Description

## Function C: Off-Delay Relay with Control Signal

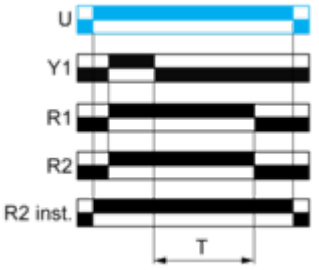
### Description

After energisation of power supply and energization of Y1 causes output(s) R close(s). When Y1 deenergizes, timing T starts.At the end of this timing period T,the output(s) R revert(s) to its/their initial position.The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

### Function: 1 Output




### Function: 2 Outputs



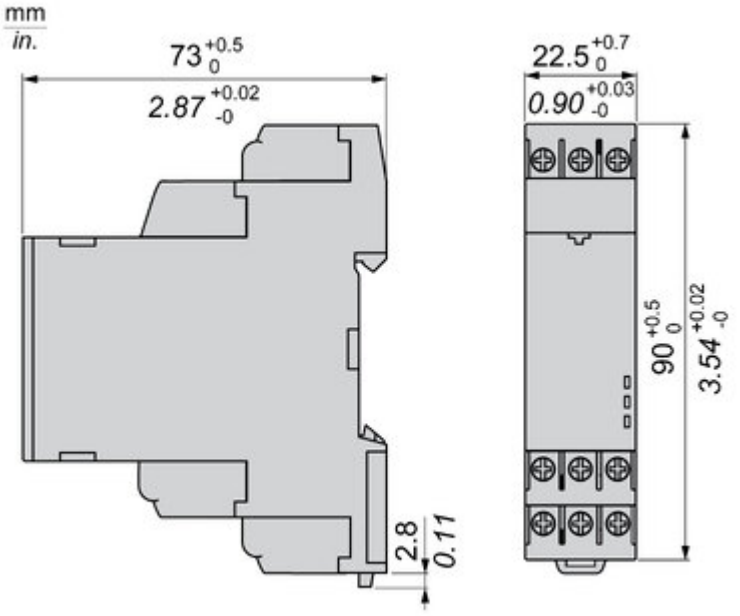

### Legend

Relay de-energised
Relay energised
Output open
Output closed

| | |
|---|---|
| U - | Supply |
| T - | Timing period |
| R1/R2 - | 2 timed outputs |
| R2 inst. - | The second output is instantaneous if the right position is selected |
| Y1 - | Retrigger / Restart control |

Technical Illustration

**Dimensions**



Offer Marketing Illustration

**Product benefits / Features**



Offer Marketing Illustration

**Product benefits / Features**



Image of product / Alternate images

**Alternative**









18
16
A2
28/24
28/22
Y1

