

# Product data sheet

Specifications



single function relay, Harmony  
Timer Relays, 8A, 1CO, 0.05...300h,  
star delta, 230...440V AC

RE22R1QMQ

Product availability: Non-Stock - Not normally stocked in  
distribution facility

**Price\*: 62.31 USD**

## 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 contact
Time delay type	Star-delta
Time delay range	1...10 h 10...100 h 6...60 s 1...10 min 0.1...1 s 1...10 s 6...60 min
Control type	Rotary knob front panel
[Us] rated supply voltage	380...440 V AC 230...240 V AC
Voltage range	0.85...1.1 Us
Supply frequency	50...60 Hz +/- 5 %
Connections - terminals	Screw terminals, 2 x 1.5 mm <sup>2</sup> with cable end Screw terminals, 2 x 2.5 mm <sup>2</sup> without cable end
Tightening torque	5.3...8.9 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
Time delay type	Star-delta - Q-Star-delta relay (2 NO outputs with same common)
Control signal pulse width	30 ms 100 ms under load
Insulation resistance	100 MOhm 500 V DC IEC 60664-1
Recovery time	120 ms on de-energisation

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

<b>Immunity to microbreaks</b>	10 ms
<b>Power consumption in VA</b>	8 VA 230...240 V 17 VA 380...440 V
<b>Breaking capacity</b>	2000 VA
<b>Minimum switching current</b>	10 mA 5 V
<b>Maximum switching current</b>	8 mA
<b>Maximum switching voltage</b>	250 V
<b>Electrical durability</b>	100000 cycles for resistive load, 8 A at 250 V, AC
<b>Mechanical durability</b>	10000000 cycles
<b>Rated impulse withstand voltage</b>	5 kV 1.2...50 µs IEC 60664-1 5 kV IEC 61812-1
<b>Power on delay</b>	100 ms
<b>Safety reliability data</b>	B10d = 260000 MTTFd = 273.9 years
<b>Mounting position</b>	Any position in relation to normal vertical mounting plane
<b>Mounting support</b>	35 mm DIN rail conforming to IEC 60715
<b>Status LED</b>	Green LED flashing)timing in progress Green LED steady)power ON Yellow LEDrelay energised
<b>Function available</b>	Q-Star-delta relay (2 NO outputs with same common)-1 C/O
<b>Width</b>	0.9 in (22.5 mm)
<b>Net Weight</b>	0.205 lb(US) (0.093 kg)
<b>Control Type</b>	With test button
<b>Number of functions</b>	1

## Environment

<b>Dielectric strength</b>	2.5 kV 1 mA/1 minute 50 Hz IEC 61812-1
<b>Standards</b>	IEC 61000-6-4 IEC 61812-1 IEC 61000-6-1 IEC 61000-6-3 IEC 61000-6-2
<b>Directives</b>	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive
<b>Product Certifications</b>	cULus RCM CSA EAC GL CCC CE
<b>Ambient Air Temperature for Operation</b>	-4...140 °F (-20...60 °C)
<b>Ambient Air Temperature for Storage</b>	-22...140 °F (-30...60 °C)
<b>IP degree of protection</b>	IP40 housing: conforming to IEC 60529 IP20 terminal block: conforming to IEC 60529 IP40 front face: conforming to IEC 60529
<b>Vibration resistance</b>	20 m/s <sup>2</sup> 10...150 Hz)IEC 60068-2-6
<b>Shock resistance</b>	15 gn 11 ms IEC 60068-2-27
<b>Relative humidity</b>	93 %, without condensation IEC 60068-2-30

<b>Electromagnetic compatibility</b>	<p>Electrostatic discharge immunity test - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2</p> <p>Electrostatic discharge immunity test - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2</p> <p>Fast transients immunity test - test level: 1 kV level 3 (capacitive connecting clip) conforming to IEC 61000-4-4</p> <p>Fast transients immunity test - test level: 2 kV level 3 (direct contact) conforming to IEC 61000-4-4</p> <p>Surge immunity test - test level: 1 kV level 3 (differential mode) conforming to IEC 61000-4-5</p> <p>Surge immunity test - test level: 2 kV level 3 (common mode) conforming to IEC 61000-4-5</p> <p>Radiated radio-frequency electromagnetic field immunity test - test level: 10 V level 3 (0.15...80 MHz) conforming to IEC 61000-4-6</p> <p>Electromagnetic field immunity test - test level: 10 V/m level 3 (80 MHz...1 GHz) conforming to IEC 61000-4-3</p> <p>Immunity to microbreaks and voltage drops - test level: 30 % (500 ms) conforming to IEC 61000-4-11</p> <p>Immunity to microbreaks and voltage drops - test level: 100 % (20 ms) conforming to IEC 61000-4-11</p> <p>Conducted and radiated emissions class B conforming to EN 55022</p>
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## Ordering and shipping details

<b>Category</b>	US10CP222376
<b>Discount Schedule</b>	0CP2
<b>GTIN</b>	3606480676550
<b>Returnability</b>	No
<b>Country of origin</b>	ID

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	1.18 in (3.000 cm)
<b>Package 1 Width</b>	3.46 in (8.800 cm)
<b>Package 1 Length</b>	3.94 in (10.000 cm)
<b>Package 1 Weight</b>	3.774 oz (107.000 g)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	40
<b>Package 2 Height</b>	5.91 in (15.000 cm)
<b>Package 2 Width</b>	11.81 in (30.000 cm)
<b>Package 2 Length</b>	15.75 in (40.000 cm)
<b>Package 2 Weight</b>	10.576 lb(US) (4.797 kg)

## Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[How we assess product sustainability >](#)



Transparency

## Well-being performance

✓ Mercury Free

✓ Rohs Exemption Information [Yes](#)

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Pro-active compliance (Product out of EU RoHS legal scope)

China Rohs Regulation [China RoHS declaration](#)

Environmental Disclosure [Product Environmental Profile](#)

Circularity Profile [End of Life Information](#)

**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](http://www.P65Warnings.ca.gov)

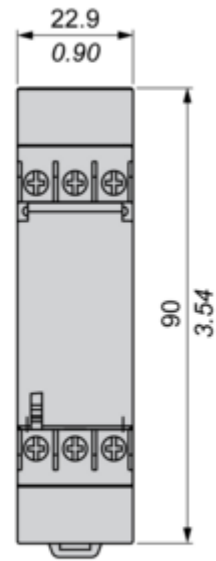
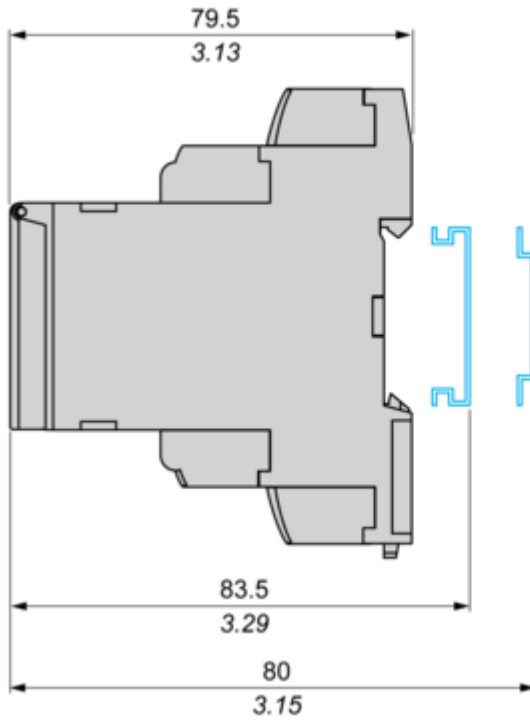
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Dimensions Drawings

Dimensions

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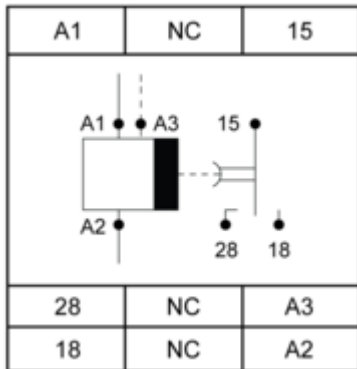
mm  
in.



Connections and Schema

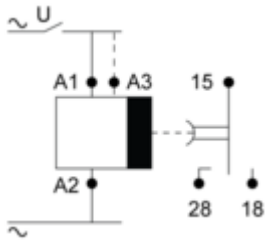
Internal Wiring Diagram

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Wiring Diagram

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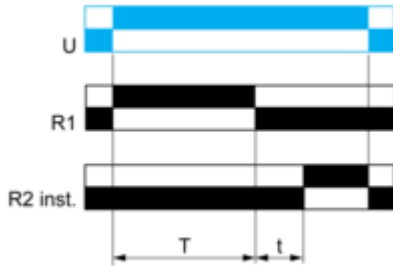
Technical Description

**Star-delta Timing Relay**

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**Description**

After power-up, the star contact closes instantly and timing T starts, At the end of timing period, the star contact opens. After a t ms pause, the delta contact closes and remains in this position.



t : 20, 40, 60, 80, 100, 120, 140 ms

**Legend**

- Relay de-energised
- Relay energised
- Output open
- Output closed

R1 :	Star contact output
R2 :	Delta contact output
T :	Timing period
t :	Delay to switch ON Delta contact output
U :	Supply



Technical Illustration

Dimensions

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mm  
in.

