

# Product datasheet

Specifications



Harmony. Modular timing relay. 8 A. 2 CO. 0.05 s...300 h. star delta. 24...240 V AC/DC

RE22R2QGMR

**Price: 2,090.50 ZAR**

## Main

Range Of Product	Harmony Timer Relays
Product Or Component Type	Modular timing relay
Discrete Output Type	Relay
Device Short Name	RE22
Nominal Output Current	8 A

## Complementary

Contacts Type And Composition	2 C/O timed contact, cadmium free
Time Delay Type	Star-delta
Time Delay Range	3...30 s 0.05...1 s 30...300 s 30...300 min 0.3...3 s 1...10 s 3...30 h 10...100 s 30...300 h 3...30 min
Control Type	Rotary knob 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 mm <sup>2</sup> (AWG 20...AWG 12) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm <sup>2</sup> (AWG 20...AWG 14) solid without cable end 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
Insulation Resistance	100 MOhm at 500 V DC conforming to IEC 60664-1
Recovery Time	120 ms on de-energisation
Immunity To Microbreaks	10 ms

Excluding VAT and subject to change. Please check with your local distributor through "Where to buy"

<b>Power Consumption In Va</b>	3 VA at 240 V AC
<b>Power Consumption In W</b>	1.5 W at 240 V DC
<b>Switching Capacity In Va</b>	2000 VA
<b>Minimum Switching Current</b>	10 mA at 5 V DC
<b>Maximum Switching Current</b>	8 A
<b>Maximum Switching Voltage</b>	250 V AC
<b>Electrical Durability</b>	100000 cycles, 8 A at 250 V, AC-1 100000 cycles, 2 A at 24 V, DC-1
<b>Mechanical Durability</b>	10000000 cycles
<b>Rated Impulse Withstand Voltage</b>	5 kV for 1.2...50 µs conforming to IEC 60664-1
<b>Power On Delay</b>	100 ms
<b>Creepage Distance</b>	4 kV/3 conforming to IEC 60664-1
<b>Overvoltage Category</b>	III conforming to IEC 60664-1
<b>Safety Reliability Data</b>	MTTFd = 342.4 years B10d = 320000
<b>Mounting Position</b>	Any position
<b>Mounting Support</b>	35 mm DIN rail conforming to IEC 60715
<b>Status Led</b>	LED backlight green (steady) for dial pointer indication LED yellow (steady) for output relay energised LED yellow (fast flashing) for timing in progress and output relay de-energised LED yellow (slow flashing) for timing in progress and output relay energised
<b>Function Available</b>	Qg- Star-delta relay (2 CO outputs w/ same common)-2 C/O
<b>Width</b>	22.5 mm
<b>Net Weight</b>	0.105 kg
<b>Control Type</b>	With test button
<b>Number Of Functions</b>	1

## Environment

<b>Dielectric Strength</b>	2.5 kV for 1 mA/1 minute at 50 Hz between relay output and power supply with basic insulation conforming to IEC 61812-1
<b>Standards</b>	UL 508 IEC 61812-1
<b>Directives</b>	2006/95/EC - low voltage directive 2004/108/EC - electromagnetic compatibility
<b>Product Certifications</b>	CCC CSA RCM GL EAC CE UL
<b>Ambient Air Temperature For Operation</b>	-20...60 °C
<b>Ambient Air Temperature For Storage</b>	-40...70 °C
<b>Ip Degree Of Protection</b>	IP40 housing: conforming to IEC 60529 IP20 terminals: conforming to IEC 60529 IP50 front panel: conforming to IEC 60529
<b>Pollution Degree</b>	3 conforming to IEC 60664-1
<b>Vibration Resistance</b>	20 m/s <sup>2</sup> (f= 10...150 Hz) conforming to IEC 60068-2-6

<b>Shock Resistance</b>	15 gn not operating for 11 ms conforming to IEC 60068-2-27 5 gn in operation for 11 ms conforming to IEC 60068-2-27
<b>Relative Humidity</b>	95 % at 25...55 °C
<b>Electromagnetic Compatibility</b>	Fast transients immunity test - test level: 1 kV level 3 (capacitive connecting clip) conforming to IEC 61000-4-4 Surge immunity test - test level: 1 kV level 3 (differential mode) conforming to IEC 61000-4-5 Surge immunity test - test level: 2 kV level 3 (common mode) conforming to IEC 61000-4-5 Electrostatic discharge - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m level 3 (80 MHz...1 GHz) conforming to IEC 61000-4-3 Conducted RF disturbances - test level: 10 V level 3 (0.15...80 MHz) conforming to IEC 61000-4-6 Fast transient bursts - test level: 2 kV level 3 (direct contact) conforming to IEC 61000-4-4 Immunity to microbreaks and voltage drops - test level: 30 % (500 ms) conforming to IEC 61000-4-11 Immunity to microbreaks and voltage drops - test level: 100 % (20 ms) conforming to IEC 61000-4-11

## Packing Units

<b>Unit Type Of Package 1</b>	PCE
<b>Number Of Units In Package 1</b>	1
<b>Package 1 Height</b>	8.2 cm
<b>Package 1 Width</b>	9.5 cm
<b>Package 1 Length</b>	2.6 cm
<b>Package 1 Weight</b>	106.0 g
<b>Unit Type Of Package 2</b>	S02
<b>Number Of Units In Package 2</b>	40
<b>Package 2 Height</b>	15.0 cm
<b>Package 2 Width</b>	30.0 cm
<b>Package 2 Length</b>	40.0 cm
<b>Package 2 Weight</b>	4.695 kg
<b>Unit Type Of Package 3</b>	PAL
<b>Number Of Units In Package 3</b>	640
<b>Package 3 Height</b>	50.0 cm
<b>Package 3 Width</b>	60.0 cm
<b>Package 3 Length</b>	80.0 cm
<b>Package 3 Weight</b>	86.18 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 >](#)

[Guide to assess a product's sustainability >](#)



Transparency RoHS/REACH

## Well-being performance

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

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

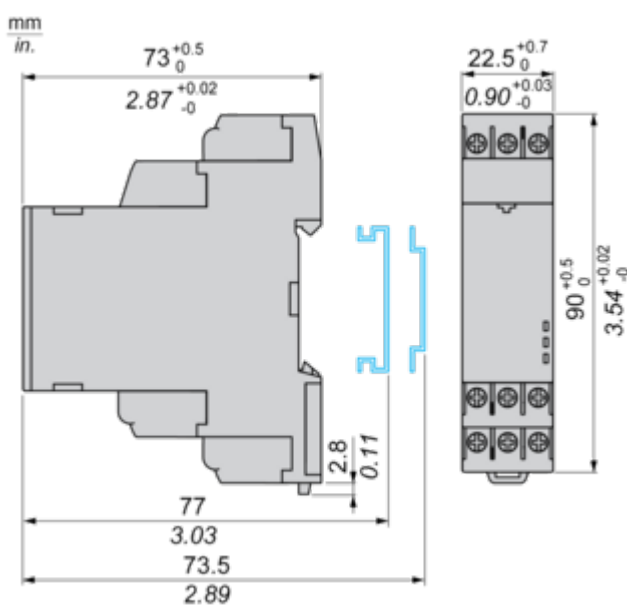
China Rohs Regulation [China RoHS declaration](#)

Environmental Disclosure [Product Environmental Profile](#)

Circularity Profile [End of Life Information](#)

Dimensions Drawings

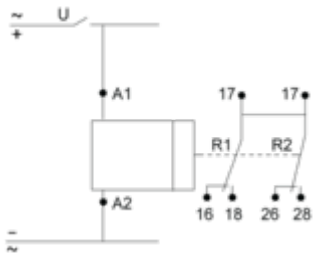
Dimensions



Connections and Schema

Wiring Diagram

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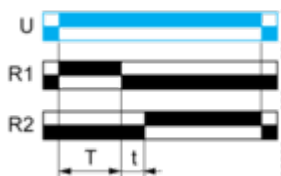
Technical Description

**Function Qg: Star-Delta Relay (2 CO with same Common)**

**Description**

On energisation of power supply, the output R1 closes such that energizes STAR CONTACTOR + MAIN CONTACTOR and the timing T starts (STAR connection time duration starts).At the end of the timing period T, the output R1 reverts to its initial state such that deenergizes STAR CONTACTOR and causes t transition time starts.At the end of the transition time, the output R2 closes such that energizes DELTA CONTACTOR.

**Function: 2 Outputs**



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

**Legend**

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

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