Product data sheet

Specifications

Green Premium™

single function relay, Harmony Timer Relays, 8A, 1CO, 0.1sâ€¦100h, star delta, 24V DC or 24...240V AC DC

RE22R1QMU

Discontinued

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

Main

Range Of Product	Harmony Timer Relays
Product Or Component Type	Single function relay
Discrete Output Type	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 min 6...60 s 0.1...1 s 1...10 h 1...10 s 6...60 min 10...100 h
Control Type	Rotary knob front panel
[Us] Rated Supply Voltage	24...240 V AC 24 V DC
Voltage Range	0.85...1.1 Us
Supply Frequency	50...60 Hz +/- 5 %
Connections - Terminals	Screw terminals, 2 x 1.5 mm² with cable end Screw terminals, 2 x 2.5 mm² without 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
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
Immunity To Microbreaks	10 ms
Power Consumption In Va	50 VA 240 V AC

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

Power Consumption In W	0.7 W 24 V DC
Breaking Capacity	2000 VA
Minimum Switching Current	10 mA 5 V
Maximum Switching Current	8 mA
Maximum Switching Voltage	250 V
Electrical Durability	100000 cycles for resistive load, 8 A at 250 V, AC
Mechanical Durability	10000000 cycles
Rated Impulse Withstand Voltage	5 kV 1.2…50 µs IEC 60664-1 5 kV IEC 61812-1
Power On Delay	100 ms
Safety Reliability Data	MTTFd = 182.6 years B10d = 170000
Mounting Position	Any position in relation to normal vertical mounting plane
Mounting Support	35 mm DIN rail conforming to IEC 60715
Status Led	Green LED flashing)timing in progress Green LED steady)power ON Yellow LEDrelay energised
Width	0.89 in (22.5 mm)
Net Weight	0.19 lb(US) (0.086 kg)
Number Of Functions	1

Environment

Dielectric Strength	2.5 kV 1 mA/1 minute 50 Hz IEC 61812-1
Standards	IEC 61000-6-4 IEC 61000-6-2 IEC 61000-6-3 IEC 61000-6-1 IEC 61812-1
Directives	2006/95/EC - low voltage directive 2004/108/EC - electromagnetic compatibility
Product Certifications	CSA EAC RCM CE CCC GL cULus
Ambient Air Temperature For Operation	-4…140 °F (-20…60 °C)
Ambient Air Temperature For Storage	-22…140 °F (-30…60 °C)
Ip Degree Of Protection	IP40 housing: conforming to IEC 60529 IP20 terminal block: conforming to IEC 60529 IP40 front face: conforming to IEC 60529
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 - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge immunity test - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2 Fast transients immunity test - test level: 1 kV level 3 (capacitive connecting clip) conforming to IEC 61000-4-4 Fast transients immunity test - test level: 2 kV level 3 (direct contact) 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 Radiated radio-frequency electromagnetic field immunity test - test level: 10 V level 3 (0.15...80 MHz) conforming to IEC 61000-4-6 Electromagnetic field immunity test - test level: 10 V/m level 3 (80 MHz...1 GHz) conforming to IEC 61000-4-3 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 Conducted and radiated emissions class B conforming to EN 55022

Ordering and shipping details

Category	US10CP222376
Discount Schedule	0CP2
Gtin	3606480676543
Returnability	No

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	1.02 in (2.6 cm)
Package 1 Width	3.23 in (8.2 cm)
Package 1 Length	3.78 in (9.6 cm)
Package 1 Weight	3.46 oz (98.0 g)
Unit Type Of Package 2	S02
Number Of Units In Package 2	40
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	9.50 lb(US) (4.309 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_2 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

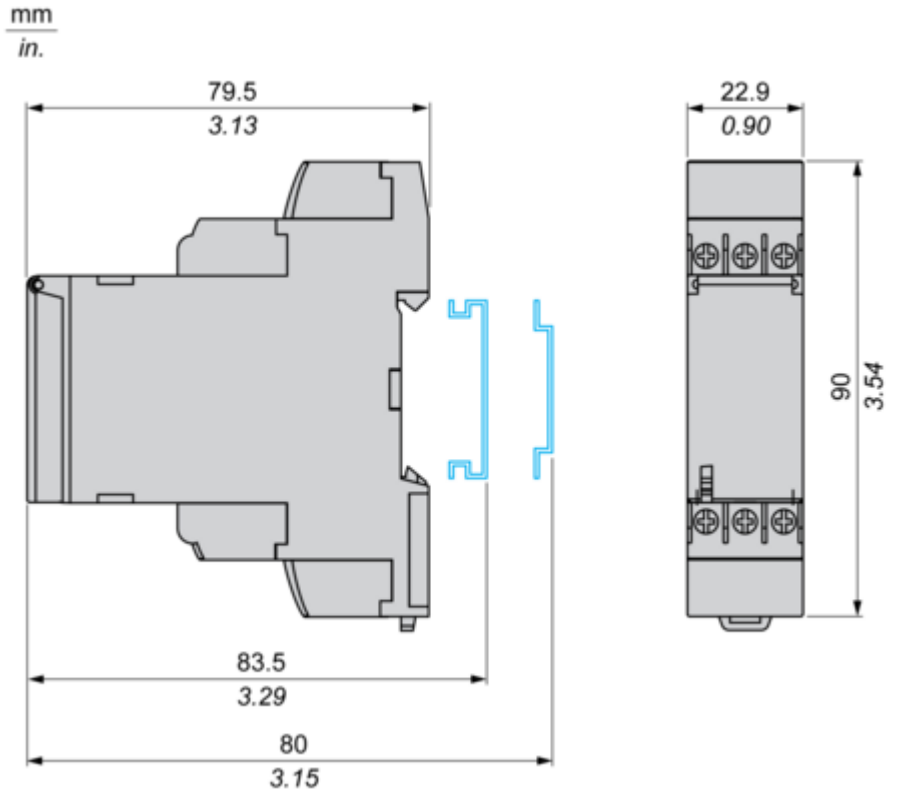
Rohs Exemption Information Yes

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
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

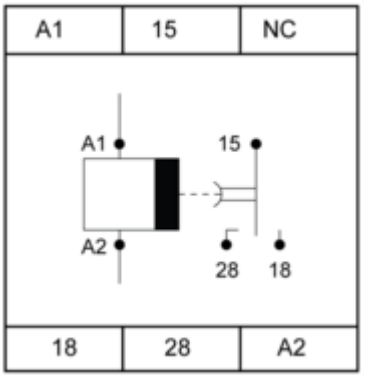
Dimensions Drawings

Dimensions

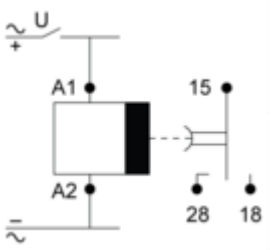


Connections and Schema

Internal Wiring Diagram



Wiring Diagram

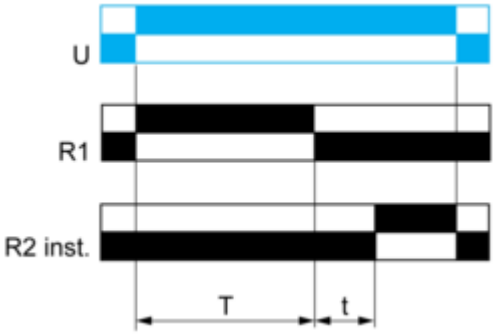


Technical Description

Star-delta Timing Relay

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