

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

RE22R1QMU

① Discontinued

Product availability: Non-Stock - Not 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 contact	
Time delay type	Star-delta	
Time delay range	110 min 660 s 0.11 s 110 h 110 s 660 min 10100 h	
Control type	Rotary knob front panel	
[Us] rated supply voltage	24240 V AC 24 V DC	
Voltage range	0.851.1 Us	
Supply frequency	5060 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	5.38.9 lbf.in (0.61 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	
Immunity to microbreaks	10 ms	

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

Power consumption in VA	50 VA 240 V AC
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 1.250 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
Function available	Q-Star-delta relay (2 NO outputs with same common)-1 C/O
Width	0.9 in (22.5 mm)
Product Weight	0.190 lb(US) (0.086 kg)
Control Type	With test button
Number of functions	1

Environment

5:1 1: 1	
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	-4140 °F (-2060 °C)
Ambient Air Temperature for Storage	-22140 °F (-3060 °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 (f= 10150 Hz) conforming to 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	3.5 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	9.500 lb(US) (4.309 kg)



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		
Carbon footprint (kg CO2 eq, Total Life cycle)	53	

Use Better

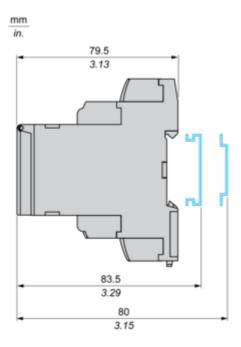
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	7bdc2711-0ad2-427c-8ece-532c5e9f09d7
REACh Regulation	REACh Declaration
California proposition 65	WARNING: This product can expose 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

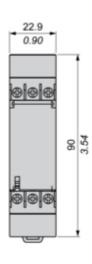
Use Again

○ Repack and remanufacture		
Take-back	No	

Dimensions Drawings

Dimensions



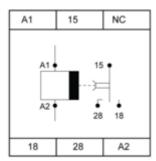


Product data sheet

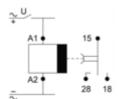
RE22R1QMU

Connections and Schema

Internal Wiring Diagram



Wiring Diagram



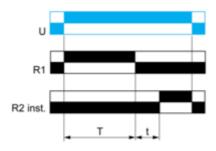
RE22R1QMU

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.



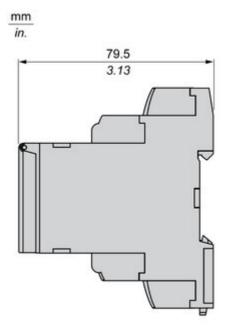
t: 20, 40, 60, 80, 100, 120, 140 ms

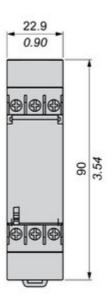
Relay de-energised
Relay energised
Output open
Output closed

	■ 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





Offer Marketing Illustration

Product benefits / Features

10

Technical Benefits

Harmony Timer Relay



RE22R1QMU

Offer Marketing Illustration

Product benefits / Features



Image of product / Alternate images

Alternative





