Specifications





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

RE22R2DMR

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

## Price\*: 73.60 USD

## Main

Range Of Product	Harmony Timer Relays
Product Or Component Type	Dual 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, cadmium free 1 C/O timed or instantaneous contact, cadmium free
Time Delay Type	Symmetrical flashing
Time Delay Range	110 s 30300 min 330 s 10100 s 30300 h 30300 s 330 min 0.33 s 0.051 s 330 h
Control Type	Rotary knob Diagnostic button Potentiometer external
[Us] Rated Supply Voltage	24240 V AC/DC 50/60 Hz
Release Input Voltage	<= 2.4 V
Voltage Range	0.851.1 Us
Supply Frequency	5060 Hz +/- 5 %
Connections - Terminals	Screw terminals, 1 x 0.51 x 3.3 mm <sup>2</sup> AWG 20AWG 12) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm <sup>2</sup> AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm <sup>2</sup> AWG 24AWG 14) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm <sup>2</sup> AWG 24AWG 16) flexible with cable end
Tightening Torque	5.318.85 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

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

Setting Accuracy Of Time Delay	+/- 10 % of full scale 25 °C IEC 61812-1
Control Signal Pulse Width	100 ms with load in parallel 30 ms
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 100000 cycles, 2 A at 24 V, DC-1
Mechanical Durability	1000000 cycles
Rated Impulse Withstand Voltage	5 kV 1.250 μs IEC 60664-1
Power On Delay	100 ms
Creepage Distance	4 kV/3 IEC 60664-1
Overvoltage Category	III IEC 60664-1
Safety Reliability Data	B10d = 200000 MTTFd = 216.8 years
Mounting Position	Any position
Mounting Support	35 mm DIN rail conforming to IEC 60715
Status Led	Green LED backlight steady)dial pointer indication Yellow LED steady)output relay energised Yellow LED fast flashing)timing in progress and output relay de-energised Yellow LED slow flashing)timing in progress and output relay energised
Width	0.89 in (22.5 mm)
Net Weight	0.23 lb(US) (0.105 kg)
Number Of Functions	2

## Environment

Dielectric Strength	2.5 kV 1 mA/1 minute 50 Hz between relay output and power supply basic insulation IEC 61812-1
Standards	IEC 61812-1 UL 508
Directives	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive
Product Certifications	CCC CSA RCM GL CE UL EAC
Ambient Air Temperature For Operation	-4140 °F (-2060 °C)
Ambient Air Temperature For Storage	-40158 °F (-4070 °C)

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Ip Degree Of Protection	IP40 housing: conforming to IEC 60529
	IP20 terminals: conforming to IEC 60529
	IP50 front panel: conforming to IEC 60529
Pollution Degree	3 IEC 60664-1
Vibration Resistance	20 m/s² 10150 Hz)IEC 60068-2-6
Shock Resistance	15 gn not operating 11 ms IEC 60068-2-27
	5 gn in operation 11 ms IEC 60068-2-27
Relative Humidity	95 % 77131 °F (2555 °C)
Electromagnetic Compatibility	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 MHz1 GHz) conforming to IEC 61000-4-3
	Conducted RF disturbances - test level: 10 V level 3 (0.1580 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

# Ordering and shipping details

Category	US10CP222376
Discount Schedule	0CP2
Gtin	3606480792496
Returnability	No
Country Of Origin	ID

# **Packing Units**

V	
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	3.74 in (9.5 cm)
Package 1 Weight	3.99 oz (113.0 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	10.91 lb(US) (4.95 kg)
Unit Type Of Package 3	P06
Number Of Units In Package 3	640
Package 3 Height	19.69 in (50.0 cm)

Package 3 Width	31.50 in (80.0 cm)
Package 3 Length	23.62 in (60.0 cm)
Package 3 Weight	189.99 lb(US) (86.18 kg)

# Sustainability Screen Premium

**Green Premium<sup>TM</sup> label** is Schneider Electric's commitment to delivering products with best-inclass 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

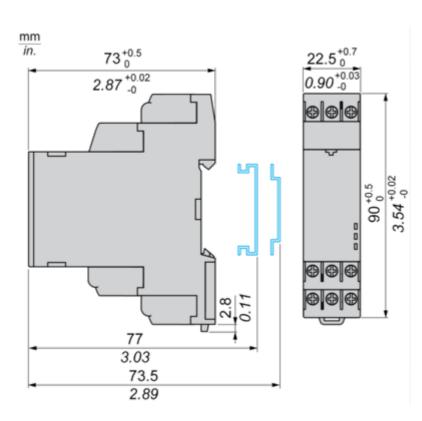
Rohs Exemption Information
Yes

## **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
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

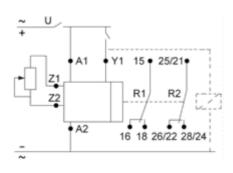
## **Dimensions Drawings**

## Dimensions



Connections and Schema

### Wiring Diagram



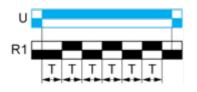
### **Technical Description**

### Function D: Symmetrical Flashing Relay (Starting Pulse Off)

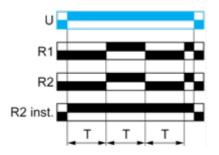
#### Description

On energisation of power supply, output(s) R starts at its/their initial state for timing duration T then change(s) to output(s) R close(s) for the same timing duration T.This cycle is repeated indefinitely until power supply removal. Specially for RE17\*, RE22R2AMU, RE22R2MMW, RE22R2MMU, RE22R2MJU, this D function can only be initiated by energizing Y1 permanently.The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

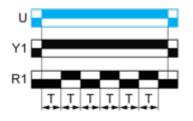
#### Function: 1 Output



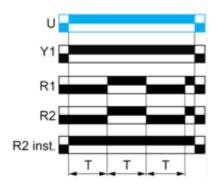
### Function: 2 Outputs



Function: 1 Output with Retrigger / Restart Control



Function: 2 Output with Retrigger / Restart Control

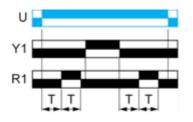


# Function DW: Symmetrical Flashing Relay (Starting Pulse Off) & With Retrigger / Restart Control

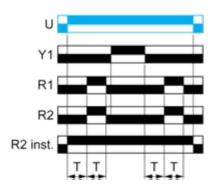
### Description

On energisation of power supply, output(s) R starts at its/their initial state for timing duration T then change(s) to output(s) R close(s) for the same timing duration T.This cycle is repeated indefinitely until power supply removal.Specially for RE17\*, RE22R2AMU, RE22R2MMW, RE22R2MMU, RE22R2MJU, this D function can only be initiated by energizing Y1 permanently.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
Т-	Timing period
R1/R2 -	2 timed outputs
R2 inst	The second output is instantaneous if the right position is selected
Y1 -	Retrigger / Restart control