# **Product datasheet**

Specifications





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

RE22R2DMR

Price: 2,090.50 ZAR

### 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
	550 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 mm² (AWG 20AWG 12) solid without cable end Screw terminals, 2 x 0.52 x 2.5 mm² (AWG 20AWG 14) solid without cable end Screw terminals, 1 x 0.21 x 2.5 mm² (AWG 24AWG 14) flexible with cable end Screw terminals, 2 x 0.22 x 1.5 mm² (AWG 24AWG 16) flexible with cable end
Tightening Torque	0.61 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

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

Control Signal Pulse Width	100 ms with load in parallel 30 ms
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
Power Consumption In Va	3 VA at 240 V AC
Power Consumption In W	1.5 W at 240 V DC
Switching Capacity In Va	2000 VA
Minimum Switching Current	10 mA at 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	10000000 cycles
Rated Impulse Withstand Voltage	5 kV for 1.250 μs conforming to IEC 60664-1
Power On Delay	100 ms
Creepage Distance	4 kV/3 conforming to IEC 60664-1
Overvoltage Category	III conforming to 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	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
Width	22.5 mm
Net Weight	0.105 kg
Number Of Functions	2
Environment	

Dielectric Strength  2.5 kV for 1 mA/1 minute at 50 Hz between relay output and power supply with bas insulation conforming to 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  Ambient Air Temperature For Storage  Ip Degree Of Protection  1P40 housing: conforming to IEC 60529 IP50 front panel: conforming to IEC 60529 IP50 front panel: conforming to IEC 60529 IP50 front panel: conforming to IEC 60529		
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  Ambient Air Temperature For Storage  Ip Degree Of Protection  1P40 housing: conforming to IEC 60529 IP20 terminals: conforming to IEC 60529	Dielectric Strength	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
2006/95/EC - low voltage directive  Product Certifications  CCC CSA RCM GL CE UL EAC  Ambient Air Temperature For Operation  Ambient Air Temperature For 3-2060 °C Operation  Ambient Air Temperature For 3-4070 °C Storage  Ip Degree Of Protection  IP40 housing: conforming to IEC 60529 IP20 terminals: conforming to IEC 60529	Standards	
CSA RCM GL CE UL EAC  Ambient Air Temperature For Operation  Ambient Air Temperature For -2060 °C  Operation  Ambient Air Temperature For Operation  -4070 °C  Storage  Ip Degree Of Protection  IP40 housing: conforming to IEC 60529 IP20 terminals: conforming to IEC 60529	Directives	· · · · · · · · · · · · · · · · · · ·
Operation  Ambient Air Temperature For Storage  Ip Degree Of Protection  IP40 housing: conforming to IEC 60529 IP20 terminals: conforming to IEC 60529	Product Certifications	CSA RCM GL CE UL
Storage  Ip Degree Of Protection  IP40 housing: conforming to IEC 60529  IP20 terminals: conforming to IEC 60529		-2060 °C
IP20 terminals: conforming to IEC 60529		-4070 °C
	Ip Degree Of Protection	IP20 terminals: conforming to IEC 60529

Pollution Degree	3 conforming to IEC 60664-1
Vibration Resistance	20 m/s² (f= 10150 Hz) conforming to IEC 60068-2-6
Shock Resistance	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
Relative Humidity	95 % at 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

# **Packing Units**

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.6 cm
Package 1 Width	8.2 cm
Package 1 Length	9.5 cm
Package 1 Weight	113.0 g
Unit Type Of Package 2	S02
Number Of Units In Package 2	40
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	4.95 kg
Unit Type Of Package 3	P06
Number Of Units In Package 3	640
Package 3 Height	50.0 cm
Package 3 Width	80.0 cm
Package 3 Length	60.0 cm
Package 3 Weight	86.18 kg

# Sustainability Green 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

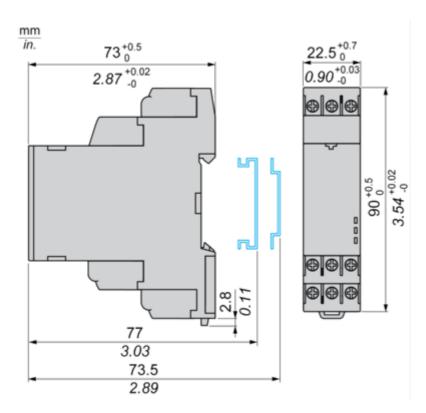
Yes

# **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

## **Dimensions Drawings**

## **Dimensions**

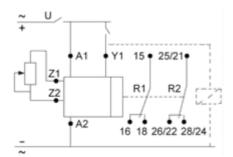


# **Product datasheet**

# RE22R2DMR

# Connections and Schema

# Wiring Diagram



#### **Technical Description**

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

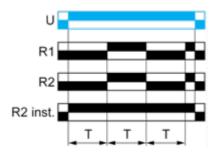
#### **Description**

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 indefintely 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").

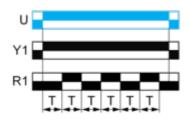
**Function: 1 Output** 



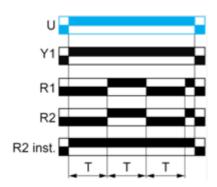
**Function: 2 Outputs** 



Function: 1 Output with Retrigger / Restart Control



Function: 2 Output with Retrigger / Restart Control



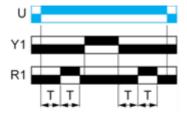
# RE22R2DMR

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

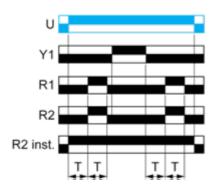
#### **Description**

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 indefintely 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	
T -	Timing period	
R1/R2 -	2 timed outputs	
R2 inst	The second output is instantaneous if the right position is selected	
Y1 -	Retrigger / Restart control	