Product datasheet

Specification





dual function relay, Harmony Timer Relays, 8A, 1CO, 0.05s…300h, off delay, 24...240V AC DC

RE22R1CMR

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

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Contacts Type And Composition	1 C/O timed contact, cadmium free
Time Delay Type	Off-delay
Time Delay Range	10100 s 330 s 0.051 s 30300 s 30300 h 30300 min 330 min 330 h 0.33 s 110 s
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
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	MTTFd = 205.4 years B10d = 190000	
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	
Function Available	C- Off-delay relay w/ control signal-1 C/O Ct- Off-delay relay w/ control signal and pause/summation-1 C/O	
Width	22.5 mm	
Net Weight	0.1 kg	
Control Type	With test button	
Number Of Functions	2	
Environment		
Dielectric Strength	2.5kV for 1 mA/1 minute at 50 Hz between relay output and power supply with basic insulation conforming to IEC 61812-1	
Standards	UL 508 IEC 61812-1	
Directives	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive	
Product Certifications	UL CF	

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Product Certifications	UL CE CCC CSA GL RCM EAC
Ambient Air Temperature For Operation	-2060 °C
Ambient Air Temperature For Storage	-4070 °C
Ip Degree Of Protection	IP40 housing: conforming to IEC 60529 IP50 front face: conforming to IEC 60529 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

PCE
1
2.6 cm
8.2 cm
9.5 cm
99.0 g
S02
40
15.0 cm
30.0 cm
40.0 cm
4.532 kg
P06
640
60.0 cm
80.0 cm
60.0 cm
79.78 kg

Sustainability Green Premium™

Green PremiumTM **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-CO₂ 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

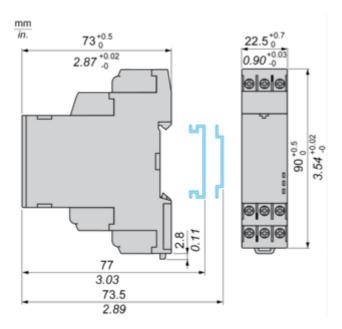
Certifications & Standards

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

7 June 2024

Dimensions Drawings

Dimensions

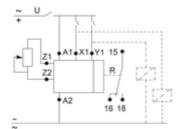


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RE22R1CMR

Connections and Schema

Wiring Diagram



RE22R1CMR

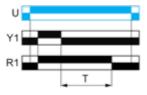
Technical Description

Function C: Off-Delay Relay with Control Signal

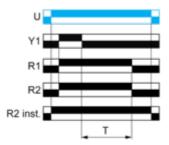
Description

After energisation of power supply and energization of Y1 causes output(s) R close(s). When Y1 deenergizes, timing T starts.At the end of this timing period T,the output(s) R revert(s) to its/their initial position. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



Function: 2 Outputs



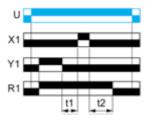
RE22R1CMR

Function Ct: Off-Delay Relay with Control Signal & With Pause / Summation Control

Description

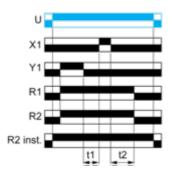
After energisation of power supply and energization of Y1 cause output(s) R close(s). When Y1 deenergizes, timing starts and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsedreaches the pre-set value T, the output(s) R revert(s) to its/their initial state. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



T = t1 + t2 +...

Function: 2 Outputs



T = t1 + t2 +...

Legend



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U -	Supply
T -	Timing period
R1/R2 -	2 timed outputs
R2 inst	The second output is instantaneous if the right position is selected
X1 -	Pause / Summation control
Y1 -	Retrigger / Restart control