



# Interval Timing Relay - 0.05s...300h - 24...240V AC/DC - 2C/O

Local distributor code: 403001790 RE22R2HMR

## 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

Contacts type and composition	C/O timed contact, cadmium free     C/O timed or instantaneous contact, cadmium free	
ime delay type	Interval	
ime delay range	110 s 330 h	
	10100 s	
	30300 s	
	0.051 s	
	330 min	
	0.33 s	
	330 s	
	30300 min 30300 h	
	30300 ft	
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	
/oltage 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	
ightening torque	0.61 N.m conforming to IEC 60947-1	
lousing material	Self-extinguishing	
Repeat accuracy	+/- 0.5 % conforming to IEC 61812-1	
Temperature drift	+/- 0.05 %/°C	
Voltage drift	+/- 0.2 %/V	
0-11:	1/ 40 0/ affill apple at 05 °C appfamain. (* 150 04040 4	
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	B10d = 200000 MTTFd = 216.8 years	
Mounting position	Any position	
Mounting support	35 mm DIN rail conforming to EN/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	
Environment		
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	
Standards	IEC 61812-1 UL 508	
Directives	2006/95/EC - low voltage directive 2004/108/EC - electromagnetic compatibility	
Product certifications	RCM CSA CE EAC UL CCC GL	
Ambient air temperature for operation	-2060 °C	
operation.		
Ambient air temperature for storage	-4070 °C	
Ambient air temperature for	IP40 housing: conforming to IEC 60529 IP20 terminals: conforming to IEC 60529 IP50 front panel: conforming to IEC 60529	
Ambient air temperature for storage	IP40 housing: conforming to IEC 60529 IP20 terminals: conforming to IEC 60529	
Ambient air temperature for storage  IP degree of protection	IP40 housing: conforming to IEC 60529 IP20 terminals: conforming to IEC 60529 IP50 front panel: conforming to IEC 60529	

Fast transients immunity test - test level: 1 kV level 3 (capacitive connecting clip) conforming 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  Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m level 3 (80  GHz) conforming to IEC 61000-4-3  Conducted RF disturbances - test level: 10 V level 3 (0.1580 MHz) conforming to IEC 61000-4-4  Immunity to microbreaks and voltage drops - test level: 30 % (500 ms) conforming to IEC 61  Immunity to microbreaks and voltage drops - test level: 100 % (20 ms) conforming to IEC 61	

Pac	king	Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Weight	113.0 g
Package 1 Height	2.6 cm
Package 1 width	8.2 cm
Package 1 Length	9.5 cm
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Weight	4.948 kg
Package 2 Height	15 cm
Package 2 width	30 cm
Package 2 Length	40 cm
Unit Type of Package 3	P06
Number of Units in Package 3	640
Package 3 Weight	86.18 kg
Package 3 Height	80 cm
Package 3 width	80 cm
Package 3 Length	60 cm
3	

# Offer Sustainability

Sustainable offer status	Green Premium product	
REACh Regulation	REACh Declaration	
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration	
Mercury free	Yes	
RoHS exemption information	Yes	
China RoHS Regulation	China RoHS declaration	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	

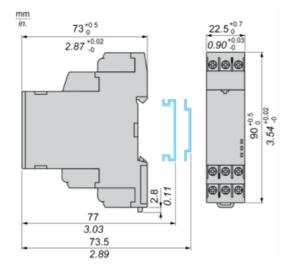
# **Contractual warranty**

Warranty	18 months

# RE22R2HMR

**Dimensions Drawings** 

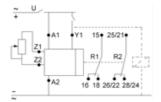
#### **Dimensions**



# RE22R2HMR

Connections and Schema

## Wiring Diagram



# RE22R2HMR

**Technical Description** 

## Function H: Interval Relay

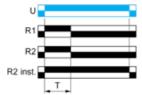
#### **Description**

On energisation of power supply, output(s) R close(s) and timing period T starts. At the end of the timing period 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**



#### **Function: 2 Outputs**



## RE22R2HMR

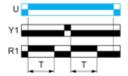
**Technical Description** 

### Function Hw: Interval Relay & with Retrigger / Restart Control

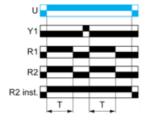
#### **Description**

On energisation of power supply, output(s) R close(s) and timing period T starts. At the end of the timing period T, the output(s) R revert(s) to its/their initial state. At any state of the output(s) R when Y1 energizes followed by deenergizes, the output(s) R close(s) then restarts the same operation as described at the beginning. 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-energis	
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