



Symmetrical Flashing Timing Relay - 0.05s...300h - 24...240V AC/DC -1C/O

Local distributor code: 402995933 RE22R1DMR

EAN Code: 3606480792380

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	
Time delay type	Symmetrical flashing	
Time delay range	0.051 s 30300 h 30300 min 30300 s 330 min 110 s 330 s 0.33 s 10100 s 330 h	
Control type	Rotary knob Diagnostic button	
[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	B10d = 280000 MTTFd = 308.2 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	
	LED yellow (fast flashing) for timing in progress and output relay de-energised	
Width	LED yellow (fast flashing) for timing in progress and output relay de-energised	
Width Net weight	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	
	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 22.5 mm	
Net weight Environment	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 22.5 mm 0.1 kg	
Net weight Environment Dielectric strength	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 22.5 mm 0.1 kg 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	
Net weight Environment	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 22.5 mm 0.1 kg 2.5 kV for 1 mA/1 minute at 50 Hz between relay output and power supply with basic insulation	
Net weight Environment Dielectric strength	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 22.5 mm 0.1 kg 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 UL 508	
Net weight Environment Dielectric strength Standards	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 22.5 mm 0.1 kg 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 UL 508 IEC 61812-1 2004/108/EC - electromagnetic compatibility	
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Environment Dielectric strength Standards Directives Product certifications Ambient air temperature for	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 22.5 mm 0.1 kg 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 UL 508 IEC 61812-1 2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive GL EAC UL CCC CSA CE RCM	
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Environment Dielectric strength Standards Directives Product certifications Ambient air temperature for operation Ambient air temperature for storage	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 22.5 mm 0.1 kg 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 UL 508 IEC 61812-1 2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive GL EAC UL CCC CSA CE RCM -2060 °C IP40 housing: conforming to IEC 60529 IP50 front face: conforming to IEC 60529 IP50 front face: conforming to IEC 60529	
Environment Dielectric strength Standards Directives Product certifications Ambient air temperature for operation Ambient air temperature for storage IP degree of protection	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 22.5 mm 0.1 kg 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 UL 508 IEC 61812-1 2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive GL EAC UL CCC CSA CE RCM -2060 °C IP40 housing: conforming to IEC 60529 IP50 front face: conforming to IEC 60529 IP20 terminals: conforming to IEC 60529 IP20 terminals: conforming to IEC 60529 IP20 terminals: conforming to IEC 60529	
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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 MHz...1 GHz) conforming to IEC 61000-4-3

Conducted RF disturbances - test level: 10 V level 3 (0.15...80 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

DOE
PCE
1
2.6 cm
8.2 cm
9.5 cm
92.0 g
S02
40
15.0 cm
30.0 cm
40.0 cm
4.119 kg
P06
640
50.0 cm
80.0 cm
60.0 cm
73.38 kg

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	
China RoHS Regulation	China RoHS declaration	
RoHS exemption information	Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End of Life Information	

Contractual warranty

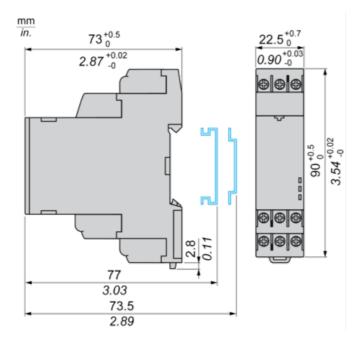
Warranty 18 months

Product datasheet

RE22R1DMR

Dimensions Drawings

Dimensions

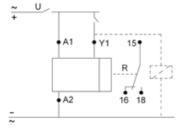


Product datasheet

RE22R1DMR

Connections and Schema

Wiring Diagram



RE22R1DMR

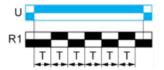
Technical Description

Function D: Symmetrical Flashing Relay (Starting Pulse Off)

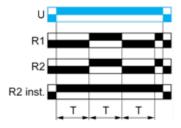
Description

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").

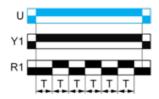
Function: 1 Output



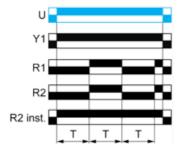
Function: 2 Outputs



Function: 1 Output with Retrigger / Restart Control



Function: 2 Output with Retrigger / Restart Control



Product datasheet

RE22R1DMR

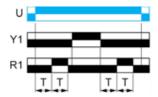
Technical Description

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

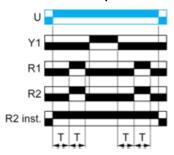
Description

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Function: 1 Output



Function: 2 Outputs



Legend



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	

Recommended replacement(s)