Specification





Modular timing relay, 8 A, 0.05 s... 300 h, 1 CO, asymmetrical flashing, 24...240 V AC/DC

RE22R1MLMR

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

Contacts Type And Composition	1 C/O timed contact, cadmium free
Time Delay Type	Asymmetrical flashing
Time Delay Range	0.051 s
	30300 min
	30300 h
	30300 s
	330 h
	0.33 s
	330 min
	330 s
	10100 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

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

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 = 194 years B10d = 180000
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	L- Asymmetrical flashing relay (starting pulse-off)-1 C/O Lt- Asymmetrical fl ashing relay (starting pulse-off) w/ pause/summation (Y1)-1 C/O Li- Asymmetrical flashing relay (starting pulse-on)-1 C/O Lit- Asymmetrical flashing relay (starting pulse-on) w/ pause/summation (Y1)-1 C/O
Width	22.5 mm
Net Weight	0.1 kg
Control Type	With test button
Number Of Functions	4

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	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive
Product Certifications	EAC UL GL CSA RCM CCC CE
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

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	8.2 cm
Package 1 Width	9.5 cm
Package 1 Length	2.6 cm
Package 1 Weight	107.0 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	4.735 kg
Unit Type Of Package 3	PAL
Number Of Units In Package 3	640
Package 3 Height	50.0 cm
Package 3 Width	60.0 cm
Package 3 Length	80.0 cm
Package 3 Weight	86.18 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

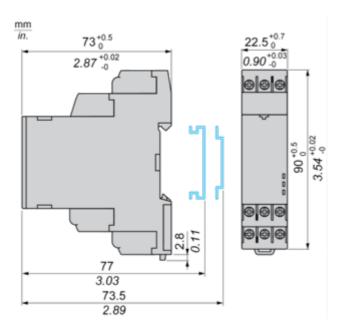
Yes

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

Dimensions Drawings

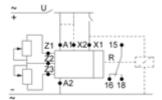
Dimensions



RE22R1MLMR

Connections and Schema

Wiring Diagram



RE22R1MLMR

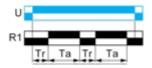
Technical Description

Function L: Asymmetrical Flashing Relay (Starting Pulse Off)

Description

On energisation of power supply, output(s) R starts at its/their initial state for timing duration Tr then change(s) to output(s) R close(s) for the another timing duration Ta.This cycle is repeated indefintely until power supply removal.

Function: 1 Output



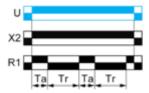
RE22R1MLMR

Function Li: Asymmetrical Flashing Relay (Starting Pulse On)

Description

On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration Ta then change(s) to its/ their initial state for timing duration Tr. This cycle is repeated indefintely until power supply removal. Specially for RE22R1MLMR, this Li function can only be initiated by energizing X2 permanently.

Function: 1 Output with Function Selection



Function: 1 Output



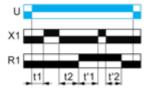
RE22R1MLMR

Function Lt: Asymmetrical Flashing Relay (Starting Pulse Off) & with Pause / Summation Control

Description

On energisation of power supply, output(s) R starts at its/their initial state for timing duration Tr and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value Tr, then changes to output(s) R close(s). The output(s) R close state will remain for the same timing duration Ta and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value Ta, the output(s) R revert(s) to its/their initial state. This cycle is repeated indefinitely until power supply removal.

Function: 1 Output



T = t1 + t2 +... **T** = t'1 + t'2 +...

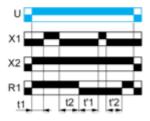
RE22R1MLMR

Function Lit: Asymmetrical Flashing Relay (Starting Pulse On) & Pause / Summation Control

Description

On energisation of power supply, output(s) R starts at output(s) R close(s) for timing duration Ta and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value Ta, the output(s) R revert(s) to its/their initial state. The output(s) R at initial state will remain for timing duration Tr the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value Tr, then changes to output(s) R close(s) This cycle is repeated indefintely until power supply removal. Specially for RE22R1MLMR, this Li function can only be initiated by energizing X2 permanently

Function: 1 Output with Function Selection



T = t1 + t2 +... T = t'1 + t'2 +...

Legend

Relay de-energised
Relay energised
Output open
Output closed

	Output closed
U -	Supply
R1 -	Timed output
Та -	Adjustable On-delay
Tr -	Adjustable Off-delay
X1 -	Pause / Summation control
X2 -	Function Selection