Product data sheet Characteristics

RE22R1MLMR

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

Product availability: Stock - Normally stocked in distribution facility



Price*: 88.90 USD



Main

Range of product	Harmony Timer Relays	4
Product or component type	Multifunction relay	
Discrete output type	Relay	:- - - -
Device short name	RE22	
Nominal output current	8 A	

Complementary

Complementary		
Contacts type and composition	1 C/O timed contact, cadmium free	- E
Time delay type	Asymmetrical flashing	
Time delay range	0.051 s	
	30300 min	ء و
	30300 h	not to
	30300 s	. <u>v.</u>
	330 h	bu d
	0.33 s	for
	330 min	substitute for
	330 s	.tsd
	10100 s	
	110 s	v.
Control type	Rotary knob	
	Diagnostic button	intende
	Potentiometer external	to
[Us] rated supply voltage	24240 V AC/DC 50/60 Hz	<u>.s</u>
Release input voltage	<= 2.4 V	191
Voltage range	0.851.1 Us	
Supply frequency	5060 Hz +/- 5 %	ق خ
Connections - terminals	Screw terminals, 1 x 0.51 x 3.3 mm² AWG 20AWG 12) solid without cable end	

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

	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	5.318.85 lbf.in (0.61 N.m) IEC 60947-1
Housing material	Self-extinguishing
Repeat accuracy	+/- 0.5 % IEC 61812-1
Temperature drift	+/- 0.05 %/°C
Voltage drift	+/- 0.2 %/V
Setting accuracy of time delay	+/- 10 % of full scale 25 °C IEC 61812-1
Control signal pulse width	100 ms with load in parallel 30 ms
Insulation resistance	100 MOhm 500 V DC IEC 60664-1
Recovery time	120 ms on de-energisation
Immunity to microbreaks	10 ms
Power consumption in VA	3 VA 240 V AC
Power consumption in W	1.5 W 240 V DC
Switching capacity in VA	2000 VA
Minimum switching current	10 mA 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 1.250 μs IEC 60664-1
Power on delay	100 ms
Creepage distance	4 kV/3 IEC 60664-1
Overvoltage category	III IEC 60664-1
Safety reliability data	MTTFd = 194 years B10d = 180000
Mounting position	Any position
Mounting support	35 mm DIN rail conforming to EN/IEC 60715
Status LED	Green LED backlight steady)dial pointer indication Yellow LED steady)output relay energised Yellow LED fast flashing)timing in progress and output relay de-energised Yellow LED slow flashing)timing in progress and output relay energised
Width	0.89 in (22.5 mm)
Net Weight	0.22 lb(US) (0.1 kg)

Environment

Dielectric strength	2.5 kV 1 mA/1 minute 50 Hz between relay output and power supply basic insulation 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	-4140 °F (-2060 °C)
Ambient air temperature for storage	-40158 °F (-4070 °C)
IP degree of protection	Housing IP40 IEC 60529 Front face IP50 IEC 60529 Terminals IP20 IEC 60529
Pollution degree	3 conforming to IEC 60664-1
Vibration resistance	20 m/s² 10150 Hz)IEC 60068-2-6

Shock resistance	15 gn not operating 11 ms IEC 60068-2-27 5 gn in operation 11 ms IEC 60068-2-27
Relative humidity	95 % 77131 °F (2555 °C)
Electromagnetic compatibility	Fast transients immunity test 1 kV capacitive connecting clip)level 3 IEC 61000-4-4 Surge immunity test 1 kV differential mode)level 3 IEC 61000-4-5 Surge immunity test 2 kV common mode)level 3 IEC 61000-4-5 Electrostatic discharge 6 kV contact discharge)level 3 IEC 61000-4-2 Electrostatic discharge 8 kV air discharge)level 3 IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test 10 V/m 80 MHz1 GHz)level 3 IEC 61000-4-3
	Conducted RF disturbances 10 V 0.1580 MHz)level 3 IEC 61000-4-6 Fast transient bursts 2 kV direct contact)level 3 IEC 61000-4-4 Immunity to microbreaks and voltage drops 30 % 500 ms) IEC 61000-4-11 Immunity to microbreaks and voltage drops 100 % 20 ms) IEC 61000-4-11

Ordering and shipping details

22376 - RELAYS-MEASUREMENT(RM4)
CP2
03606480792441
1
3.77 oz (107 g)
Yes
ID

Packing Units

Unit Type of Package 1	PCE	
Package 1 Height	3.23 in (8.2 cm)	
Package 1 width	3.74 in (9.5 cm)	
Package 1 Length	1.02 in (2.6 cm)	

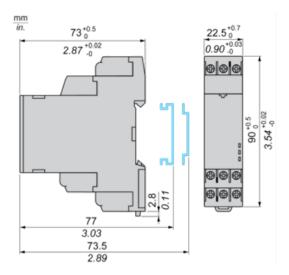
Offer Sustainability

Sustainable offer status	Green Premium product	
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov	
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	

Product data sheet Dimensions Drawings

RE22R1MLMR

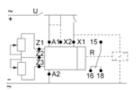
Dimensions



Product data sheet Connections and Schema

RE22R1MLMR

Wiring Diagram



Product data sheet Technical Description

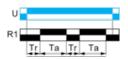
RE22R1MLMR

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



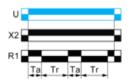
RE22R1MLMR

Function Li: Asymmetrical Flashing Relay (Starting Pulse On)

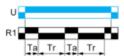
Description

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



Product data sheet Technical Description

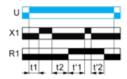
RE22R1MLMR

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 + ...

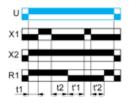
RE22R1MLMR

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 intial 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

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