Product data sheet Characteristics

RE22R1CMR

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





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	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	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 = 205.4 years B10d = 190000
Mounting position	Any position
Mounting support	35 mm DIN rail conforming to 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	UL 508 IEC 61812-1
Directives	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive
Product Certifications	UL[RETURN]CE[RETURN]CCC[RETURN]CSA[RETURN]GL[RETURN]RCM[RETURN]EA
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 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 - 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

Ordering and shipping details

Category	22376-RELAYS-MEASUREMENT(RM4)
Discount Schedule	CP2
GTIN	3606480792397
Returnability	Yes
Country of origin	ID

Packing Units

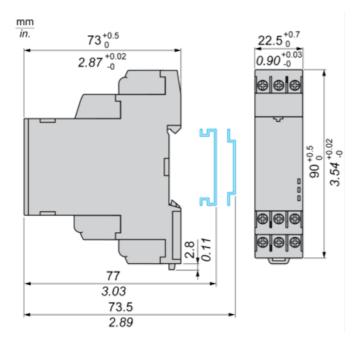
1 doking office	
Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	1.02 in (2.6 cm)
Package 1 Width	3.23 in (8.2 cm)
Package 1 Length	3.74 in (9.5 cm)
Package 1 Weight	3.49 oz (99.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Height	5.91 in (15.0 cm)
Package 2 Width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)
Package 2 Weight	9.99 lb(US) (4.532 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	640
Package 3 Height	23.62 in (60.0 cm)
Package 3 Width	31.50 in (80.0 cm)
Package 3 Length	23.62 in (60.0 cm)
Package 3 Weight	175.88 lb(US) (79.78 kg)

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)	
Mercury free	Yes	
China RoHS Regulation	☑ China RoHS Declaration	
RoHS exemption information	₫Yes	
Environmental Disclosure	Product Environmental Profile	
Circularity Profile	End Of Life Information	

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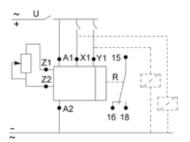
Dimensions



Product data sheet Connections and Schema

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Wiring Diagram



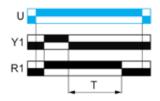
RE22R1CMR

Function C: Off-Delay Relay with Control Signal

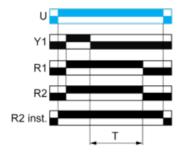
Description

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

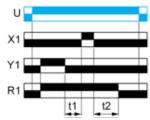


Function Ct: Off-Delay Relay with Control Signal & With Pause / Summation Control

Description

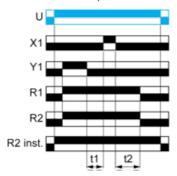
After energisation of power supply and energization of Y1 cause output(s) R close(s). When Y1 deenergizes, timing starts and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsedreaches the pre-set value T, the output(s) R revert(s) to its/their 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

Relay de-energised

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
X1 -	Pause / Summation control
Y1 -	Retrigger / Restart control