Product datasheet Characteristics

RE22R1ACMR

On and Off-delay Timing Relay - 0.05s...300h - 24...240V AC/DC - 1C/O



Price* : 51.56 GBP



Main

Range of product Zelio Time Product or component type Modular timing relay Discrete output type Relay Device short name RE22 Nominal output current 8 A			4
Discrete output type Relay Device short name RE22	Range of product	Zelio Time	
Device short name RE22	Product or component type	Modular timing relay	o_a
	Discrete output type	Relay	these
Nominal output current 8 A	Device short name	RE22	it's of
	Nominal output current	8 A	eliabil

Complementary

Contacts type and composition	1 C/O timed contact, cadmium free	
Time delay type	Ac Act	
Time delay range	330 min 110 s 30300 s 10100 s 330 s 30300 min 30300 h 0.33 s 0.051 s 330 h	subethine for and is not to be used for
Control type	Rotary knob Diagnostic button Potentiometer external	מ מ ת ת ת
[Us] rated supply voltage	24240 V AC/DC 50/60 Hz	<u>.</u> <u>.</u>
Release input voltage	<= 2.4 V	<u>.</u> . <u>v</u>
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	oner This A

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 = 190000 MTTFd = 205.4 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		
Product weight	0.1 kg		

Environment

Dielectric strength	2.5 kV for 1 mA/1 minute at 50 Hz between relay output and power supply with basic ins 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	CE CCC GL UL China RoHS CSA EAC RCM	
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	

Offer Sustainability

Sustainable offer status	Green Premium product
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

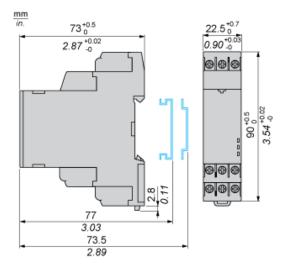
Contractual warranty

Warranty	18 months	

Product datasheet Dimensions Drawings

RE22R1ACMR

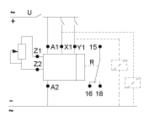
Dimensions



Product datasheet Connections and Schema

RE22R1ACMR

Wiring Diagram



Product datasheet Technical Description

RE22R1ACMR

Function Ac: On-Delay & Off-Delay with Control Signal

Description

After energisation of power supply and energization of Y1 causes the timing period T to start.

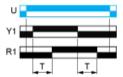
At the end of this timing period, the output(s) R close(s).

When deenergization of Y1, the timing T starts.

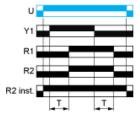
At the end of this timing period T,the output(s) R revert(s) to its/their initial position.

The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

Function: 1 Output



Function: 2 Outputs



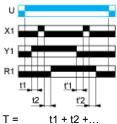
RE22R1ACMR

Function Act: On-Delay & Off-Delay with Control Signal & With Pause / Summation Control

Description

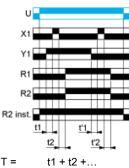
After energisation of power supply and energization of Y1 causes the timing period T to start and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R close(s). When deenergization of Y1, the timing T starts and the timing can be interrupted / paused each time X1 energizes. When the cumulative total of time periods elapsed reaches the pre-set value 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



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

Function: 2 Outputs



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

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