Product datasheet Characteristics

RE22R2MJU

Multifunction Timer Relay - 12V AC/DC - 2 C/O



Price*: 52.57 GBP



Main

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Range of product	Zelio Time	G G
Product or component type	Modular timing relay	in the state of th
Discrete output type	Relay	- Dud
Device short name	RE22	e e
Nominal output current	8 A	10 A

Complementary

Contacts type and composition	1 C/O timed contact 1 C/O timed or instantaneous contact	The state of the s
Time delay type	В	2. 2.
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	Di	ţ
	Ht	į.
	Bw	
	Ac	
	H	<u>.</u>
	At	
	A	 7
	D	
Time delay range	110 min	•
	660 min	
	0.11 s	į
	660 s	9
	110 s	
	110 h	
	10100 h	
Control type	Rotary knob front panel	<u>}</u> 2.
[Us] rated supply voltage	12 V AC/DC	
Voltage range	0.91.2 Us	
Supply frequency	5060 Hz +/- 5 %	
Connections - terminals	Screw terminals, 2 x 1.5 mm² with cable end	
	Screw terminals, 2 x 2.5 mm² without 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	30 ms 100 ms under load
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	1.2 VA at 12 V AC
Power consumption in W	0.5 W at 12 V DC
Breaking capacity	2000 VA
Minimum switching current	10 mA at 5 V
Maximum switching current	8 mA
Maximum switching voltage	250 V
Electrical durability	100000 cycles for resistive load, 8 A at 250 V, AC
Mechanical durability	10000000 cycles
Rated impulse withstand voltage	5 kV for 1.250 μs conforming to IEC 60664-1 5 kV conforming to IEC 61812-1
Power on delay	100 ms
Safety reliability data	B10d = 190000 MTTFd = 205.4 years
Mounting position	Any position in relation to normal vertical mounting plane
Mounting support	35 mm DIN rail conforming to EN/IEC 60715
Status LED	LED green (flashing) for timing in progress LED green (steady) for power ON LED yellow for relay energised
Width	22.5 mm
Product weight	0.09 kg

Environment

Environment	
Dielectric strength	2.5 kV for 1 mA/1 minute at 50 Hz conforming to IEC 61812-1
Standards	EN 61000-6-1 IEC 61812-1 EN 61000-6-4 EN 61000-6-3 EN 61000-6-2
Directives	2006/95/EC - low voltage directive 2004/108/EC - electromagnetic compatibility
Product certifications	CSA CULus China RoHS CE EAC GL CCC RCM
Ambient air temperature for operation	-2060 °C
Ambient air temperature for storage	-3060 °C
IP degree of protection	IP40 housing: conforming to IEC 60529 IP20 terminal block: conforming to IEC 60529 IP40 front face: conforming to IEC 60529
Vibration resistance	20 m/s² (f= 10150 Hz) conforming to IEC 60068-2-6
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27
Relative humidity	93 %, without condensation conforming to IEC 60068-2-30
Electromagnetic compatibility	Electrostatic discharge immunity test - test level: 6 kV level 3 (contact discharge) conforming to EN/ IEC 61000-4-2

Electrostatic discharge immunity test - test level: 8 kV level 3 (air discharge) conforming to EN/IEC 61000-4-2

Fast transients immunity test - test level: 1 kV level 3 (capacitive connecting clip) conforming to IEC 61000-4-4

Fast transients immunity test - test level: 2 kV level 3 (direct contact) 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 Radiated radio-frequency electromagnetic field immunity test - test level: 10 V level 3 (0.15...80 MHz) conforming to IEC 61000-4-6

Electromagnetic field immunity test - test level: 10 V/m level 3 (80 MHz...1 GHz) conforming to IEC 61000-4-3

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 Conducted and radiated emissions class B conforming to EN 55022

Offer Sustainability

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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	

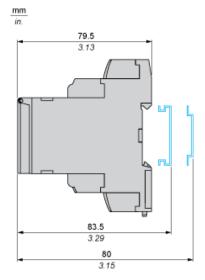
Contractual warranty

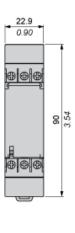
Warranty	18 months

Product datasheet Dimensions Drawings

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Dimensions

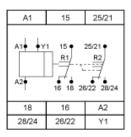




Product datasheet Connections and Schema

RE22R2MJU

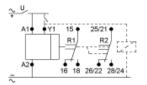
Internal Wiring Diagram



Product datasheet Connections and Schema

RE22R2MJU

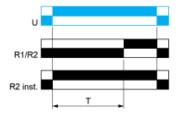
Wiring Diagram



Function A: Power on Delay Relay

Description

The timing period T begins on energization. After timing, the output(s) relay close(s).



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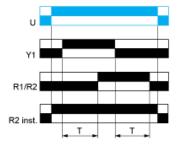
Function Ac: On- and Off-Delay Relay with Control Signal

Description

After power-up, closing of the control contact Y1 causes the timing period T to start (timing can be interrupted by operating the Gate control contact G). At the end of this timing period, the relay closes.

When control contact Y1 re-opens, the timing T starts. At the end of this timing period T

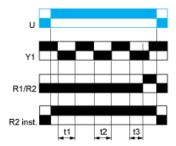
At the end of this timing period T, the output reverts to its initial position (timing can be interrupted by operating the Gate control contact G).



Function At: Power on Delay Relay (Summation) with Control Signal

Description

After power-up, the first opening of control contact Y1 starts the timing. Timing can be interrupted each time control contact closes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output relay closes.



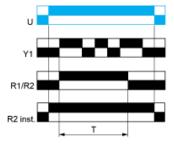
T = t1+t2+t3

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Function B: Interval Relay with Control Signal

Description

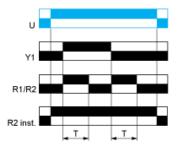
After power-up, pulsing or maintaining control contact Y1 starts the timing T. The output relay closes for the duration of the timing period T then reverts to its initial state.



Function Bw : Double Interval Relay with Control Signal

Description

On closing and opening of control contact Y1, the output relay closes for the duration of the timing period T.

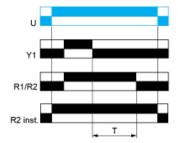


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Function C: Off-Delay Relay with Control Signal

Description

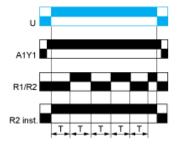
After power-up and closing of the control contact Y1, the output relay closes. When control contact Y1 re-opens, timing T starts. At the end of the timing period, the output(s) relay revert(s) to its/their initial state.



Function D : Symmetrical Flasher Relay (Starting Pulse Off)

Description

Repetitive cycle with two timing periods T of equal duration, with output(s) relay changing state at the end of each timing period T.



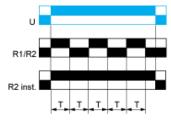
Before power-up Y1 should be permanently connected to A1.

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Function D : Symmetrical Flasher Relay (Starting Pulse On)

Description

Repetitive cycle with two timing periods T of equal duration, with output(s) relay changing state at the end of each timing period T.

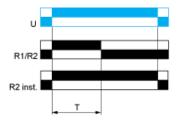


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Function H: Interval Relay

Description

On energization of the relay, timing period T starts and the output(s) relay close(s). At the end of the timing period T, the output(s) relay revert(s) to its/their initial state



2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Legend

Relay de-energised

Relay energised

Output open

Output closed

Y1: Control contact R1/R2:2 timed outputs

R2 inst. The second output is instantaneous if the right position is selected

 $\begin{array}{ll} T: & \text{Timing period} \\ \text{U}: & \text{Supply} \end{array}$

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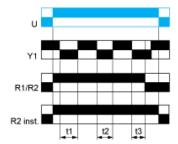
Function Ht: Interval Relay (Summation) with Control Signal

Description

On energization, the output relay closes for the duration of a timing period T then reverts to its initial state.

Pulsing or maintaining control contact Y1 will again close the output relay.

Timing T is only active when control contact Y1 is released and so the output relay will not revert to its initial state until after a time t1 + t2 + t3. The relay memories the total, cumulative opening time of control contact Y1 and, once the set time T is reached, the output relay reverts to its initial state.



T = t1+t2+t3

Legend

Relay de-energised

Relay energised

Output open

Output closed

Y1: Control contact R1/R2:2 timed outputs

R2 inst. The second output is instantaneous if the right position is selected

T: Timing period U: Supply