RE17RMJU

time delay relay 10 functions - 1 s..100 h - 12 V AC/DC - 1 OC



Product availability: Non-Stock - Not normally stocked in distribution facility



Main Range of product Zelio Time Product or component Modular timing relay Discrete output type Relay Width 0.69 in (17.5 mm) RE17R Device short name Time delay type Н A C Ac Ht D Bw Di В At Time delay range 1...10 s 6...60 s 10...100 h 1...10 min 1...10 h 0.1...1 s

6...60 min

Complementary

Contacts type and composition	1 C/O
Contacts material	Cadmium free
Height	3.54 in (90 mm)
Depth	2.83 in (72 mm)
Control type	Selector switch front panel
[Us] rated supply voltage	12 V AC/DC 50/60 Hz
Voltage range	0.91.2 Us
Supply frequency	5060 Hz +/- 5 %
Release of input voltage	5 V
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 typical 30 ms typical
Insulation resistance	100 MOhm 500 V DC IEC 60664-1
Reset time	120 ms on de-energisation typical
On-load factor	100 %

Nominal output current

Power consumption in VA	00.7 VA 12 V AC
Maximum power consumption in W	0.5 W 12 V DC
Minimum switching current	10 mA 5 V DC
Maximum switching current	8 A AC/DC
Maximum switching voltage	250 V AC
Breaking capacity	2000 VA
Operating frequency	10 Hz
Electrical durability	100000 cycles resistive 8 A 250 V AC
Mechanical durability	10000000 cycles
Dielectric strength	2.5 kV 1 mA/1 minute 50 Hz IEC 61812-1
[Uimp] rated impulse withstand voltage	5 kV 1.2/50 μs
Power on delay	100 ms
Marking	CE
Creepage distance	4 kV/3 IEC 60664-1
Safety reliability data	MTTFd = 296.8 years B10d = 270000
Mounting position	Any position in relation to normal vertical mounting plane
Mounting support	35 mm DIN rail EN/IEC 60715
Local signalling	LED indicator on steady: relay energised, no timing in progress LED indicator 80 % ON and 20 % OFF flashing: timing in progress LED indicator 5 % ON and 95 % OFF pulsing: relay de-energised, no timing in progress (except function Di-D, Li-L)
Net weight	0.15 lb(US) (0.07 kg)
Time delay type	A, Ac, At, B, Bw, C, D, Di, H, Ht
Functionality	Multifunction
Compatibility code	RE17

Environment

Environment	
Immunity to microbreaks	20 ms
Standards	2006/95/EC
	2004/108/EC
	EN 61000-6-4
	EN 61000-6-1
	EN 61000-6-3
	IEC 61812-1 EN 61000-6-2
Product certifications	CSA
	GL
	CULus
Ambient air temperature for storage	-22140 °F (-3060 °C)
Ambient air temperature for operation	-4140 °F (-2060 °C)
IP degree of protection	IP20 IEC 60529 terminal block)
	IP40 IEC 60529 housing)
	IP50 IEC 60529 front panel)
Vibration resistance	20 m/s ² 10150 Hz)IEC 60068-2-6
Shock resistance	15 gn 11 ms IEC 60068-2-27
Relative humidity	93 % without condensation IEC 60068-2-30
Electromagnetic compatibility	Electrostatic discharge immunity test 6 kV in contact) level 3 IEC 61000-4-2 Electrostatic discharge immunity test 8 kV in air) level 3 IEC 61000-4-2
	Susceptibility to electromagnetic fields 10 V/m 80 MHz to 1 GHz) level 3 IEC 61000-4-3
	Electrical fast transient/burst immunity test 1 kV capacitive connecting clip) level 3 IEC 61000-4-4
	Electrical fast transient/burst immunity test 2 kV direct) level 3 IEC 61000-4-4
	1.2/50 µs shock waves immunity test 1 kV differential mode) level 3 IEC 61000-4-5
	1.2/50 µs shock waves immunity test 2 kV common mode) level 3 IEC 61000-4-5 Conducted RF disturbances 10 V 0.1580 MHz) level 3 IEC 61000-4-6
	Voltage dips and interruptions immunity test 0 % 1 cycle) IEC 61000-4-11
	Voltage dips and interruptions immunity test 70 % 25/30 cycles) IEC 61000-4-11
	Conducted and radiated emissionsclass B EN 55022

Ordering and shipping details

Category	22370 - RE, RM MISC TIMERS & COUNTERS
Discount Schedule	CP2
GTIN	00785901284291
Package weight(Lbs)	0.08 kg (0.17 lb(US))
Returnability	No
Country of origin	ID

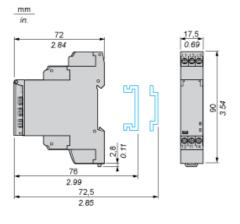
Offer Sustainability

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Sustainable offer status	Green Premium product
REACh Regulation	[™] REACh Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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

RE17RMJU

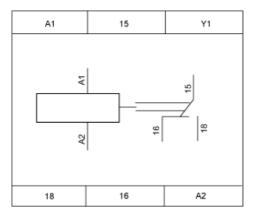
Width 17.5 mm



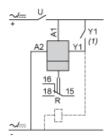
Product data sheet Connections and Schema

RE17RMJU

Internal Wiring Diagram



Wiring Diagram



1) Contact Y1:

- Control for functions B, C, Ac, Bw, Ad, Ah, N, O, W, T, Tt.
- Partial stop for functions At, Ht and Pt.
- Function D if Di selected.
- Not used for functions A, H and P.

Product data sheet Technical Description

RE17RMJU

Function A: Power on Delay Relay

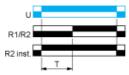
Description

The timing period T begins on energisation. After timing, the output(s) R close(s). The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



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

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.

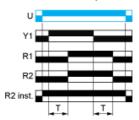
At the end of this timing period T,the output(s) R revert(s) to its/their initial position.

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

Function: 1 Output



Function: 2 Outputs

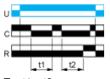


Function At: Power on Delay Relay (Summation) with Control Signal

Description

After power-up, the first opening of control contact C 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.

Function: 1 Output



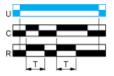
T = t1 + t2 + ...

Function B: Interval Relay with Control Signal

Description

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

Function: 1 Output

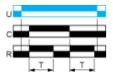


Function Bw: Double Interval Relay with Control Signal

Description

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

Function: 1 Output

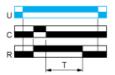


Function C: Off-Delay Relay with Control Signal

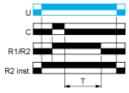
Description

After power-up and closing of the control contact C, the output R closes. When control contact C re-opens, timing T starts. At the end of the timing period, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



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

Function D: Symmetrical Flashing Relay (Starting Pulse Off)

Description

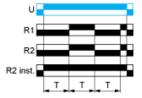
On energisation of power supply, output(s) R starts at its/their initial state for timing duration T then change(s) to output(s) R close(s) for the same timing duration T.This cycle is repeated indefintely until power supply removal. Specially for RE17*, RE22R2AMU, RE22R2MMW,

RE22R2MMU, RE22R2MJU, this D function can only be initiated by energizing Y1 permanently. The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

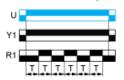
Function: 1 Output



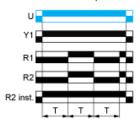
Function: 2 Outputs



Function: 1 Output with Retrigger / Restart Control



Function: 2 Output with Retrigger / Restart Control



Function Di: Symmetrical Flasher Relay (Starting Pulse On)

Description

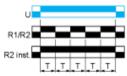
Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T.

The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



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

Function H: Interval Relay

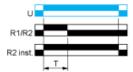
Description

On energisation of the relay, timing period T starts and the output(s) R close(s). At the end of the timing period T, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs



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

Function Ht: Interval Relay (Summation) with Control Signal

Description

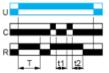
On energisation, the output R closes for the duration of a timing period T then reverts to its initial state.

Pulsing or maintaining control contact C will again close the output R.

Timing T is only active when control contact C is released and so the output R will not revert to its initial state until after a time t1 + t2 +...

The relay memorises the total, cumulative opening time of control contact C and, once the set time T is reached, the output R reverts to its initial state.

Function: 1 Output



T = t1 + t2 +...

Legend

Relay de-energised

Relay energised

Output open

Output closed

C Control contact

G Gate

R Relay or solid state output

R1/ 2 timed outputs R2

R2

The second output is instantaneous if the right position is selected

inst.

T Timing period

Ta Adjustable On-delay

Tr Adjustable Off-delay

U Supply