Product data sheet Characteristics

RE88867105

universal plug-in timing relay - 0.1 s..60 mn - 24..240 V AC - 1 OC



Range of product	Zelio Time	<u>-</u>
Product or component type	Universal timing relay	
Discrete output type	Relay	
Width pitch dimension	35 mm	
Component name	RE88867	
Time delay type	A Ac At B C D H H	suitability orraliability of thace product
Time delay range	0.11 s 110 h 110 min 110 s 10100 h 660 min 660 s	to be used for determining a

Complementary

		<u> </u>
Electrical connection	Plug-in sub-base 8 pin(s)	
Contacts material	AgNi (cadmium free)	DST.
[In] rated current	8 A	о п
[Us] rated supply voltage	24240 V AC at 50/60 Hz 24 V DC	e pepulari i i i i i i i i i i i i i i i i i i
Voltage range	0.851.1 Us	
Housing material	Self-extinguishing	
Repeat accuracy	+/- 0.5 % conforming to IEC 61812-1	tat Signatura
Temperature drift	+/- 0.05 %/°C	——————————————————————————————————————
Voltage drift	+/- 0.2 %/V	— ор 9
Setting accuracy of time delay	+/- 10 % of full scale at 25 °C conforming to IEC 61812-1	
Minimum pulse duration	100 ms under load	

	30 ms	
Reset time	100 ms on de-energisation	
On-load factor	100 %	
Power consumption in VA	32 VA 240 V	
Power consumption in W	0.6 W 24 V 1.5 W 240 V	
Breaking capacity	2000 VA	
Breaking capacity	80 W	
Minimum switching current	10 mA	
Maximum switching current	8 A	
Maximum switching voltage	250 V	
Electrical durability	100000 cycles 8 A at 250 V resistive	
Mechanical durability	5000000 cycles	
[Uimp] rated impulse withstand voltage	5 kV for 1.250 μs conforming to IEC 60664-1 5 kV for 1.250 μs conforming to IEC 61812-1	
Marking	CE	
Creepage distance	4 kV/3 conforming to IEC 60664-1	
Surge withstand	1 kV (differential mode) conforming to IEC 61000-4-5 level 3 2 kV (common mode) conforming to IEC 61000-4-5 level 3	
Local signalling	LED indicator green flashing: timing in progress LED indicator green on steady: relay energised, no timing in progress LED indicator green pulsing: relay energised, no timing in progress (except functions Di-D)	
Product weight	0.08 kg	

Environment

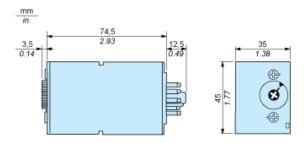
Immunity to microbreaks	> 10 ms	
Dielectric strength	2.5 kV 1 mA/1 minute 50 Hz conforming to IEC 61812-1	
Standards	73/23/EEC 89/336/EEC 93/68/EEC EN 50081-1/2 EN 50082-1/2 IEC 60669-2-3 IEC 61812-1	
Product certifications	CSA cURus GL	
Ambient air temperature for operation	-2060 °C	
Ambient air temperature for storage	-3060 °C	
IP degree of protection	IP20 (terminal block) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP50 (front panel) conforming to IEC 60529	
Vibration resistance	0.35 mm (f = 1055 Hz) conforming to IEC 60068-2-6	
Relative humidity	93 % without condensation conforming to IEC 60068-2-3	
Resistance to electrostatic discharge	6 kV (in contact) conforming to IEC 61000-4-2 level 3 8 kV (in air) conforming to IEC 61000-4-2 level 3	
Resistance to electromagnetic fields	10 V/m, 80 MHz to 1 GHz conforming to ENV 50140/204 level 3 10 V/m, 80 MHz to 1 GHz conforming to IEC 61000-4-3 level 3	
Resistance to fast transients	1 kV, capacitive connecting clip conforming to IEC 61000-4-4 level 3 2 kV, direct conforming to IEC 61000-4-4 level 3	
Immunity to radioelectric fields	10 V (0.1580 MHz) conforming to ENV 50141 (IEC 61000-4-6)	
Immunity to voltage dips	30 % / 10 ms conforming to IEC 61000-4-11 60 % / 100 ms conforming to IEC 61000-4-11 95 % / 5 s conforming to IEC 61000-4-11	
Disturbance radiated/conducted	Class B conforming to EN 55022 (EN 55011 group 1)	

Contractual warranty

Warranty period	18 months	

RE88867105

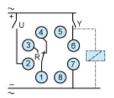
Width 35 mm



Product data sheet Connections and Schema

RE88867105

Wiring Diagram



Function A: Power on Delay Relay

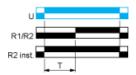
Description

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



RE88867105

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

Description

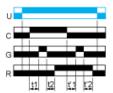
After power-up, closing of the control contact C causes the timing period T to start (timing can be interrupted by operating the Gate control contact G). At the end of this timing period, the relay closes.

When control contact C re-opens, the timing T starts.

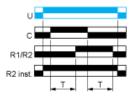
At the end of this timing period T, the output reverts to its initial position (timing can be interrupted by operating the Gate control contact G).

The second output can be either timed or instantaneous.

Function: 1 Output



Function: 2 Outputs

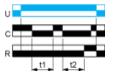


RE88867105

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.



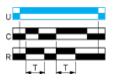
T = t1 + t2 +...

RE88867105

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.



RE88867105

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.



Product data sheet RE88867105

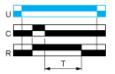
Technical Description

Function C: Off-Delay Relay with Control Signal

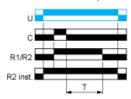
Description

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

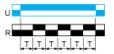


Function D : Symmetrical Flasher Relay (Starting Pulse Off)

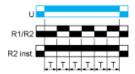
Description

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



Function Di: Symmetrical Flasher Relay (Starting Pulse On)

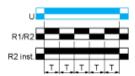
Description

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



RE88867105

Function H: Interval Relay

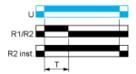
Description

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



RE88867105

Function Ht: Interval Relay (Summation) with Control Signal

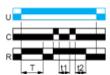
Description

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.



T = t1 + t2 + ...

RE88867105

Legend

Relay de-energised

Relay energised

Output open

Output closed

C Control contact

G Gate

R Relay or solid state output

R1/R2 2 timed outputs

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

T Timing periodTa - Adjustable On-delayTr - Adjustable Off-delay

U Supply