

Product data sheet

Specifications



asymmetrical flashing relay - 0.1..1 s - 24..240 V AC - solid state output

RE11LLBM

⚠ Discontinued on: 19 December 2019

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Main

Range of product	Zelio Time
Product or component type	Modular timing relay
Discrete output type	Solid state
Width pitch dimension	17.5 mm
Component name	RE11L
Time delay type	Li L
Time delay range	1...10 h 6...60 min 1...10 min 6...60 s 1...10 s 10...100 h 0.1...1 s
[Us] rated supply voltage	24...240 V AC at 50/60 Hz

Complementary

Control type	Selector switch front panel
Voltage range	0.85...1.1 Us
Nominal output current	0.7 A
Connections - terminals	Screw terminals, 1 x 4 mm ² without cable end Screw terminals, 2 x 1.5 mm ² with cable end Screw terminals, 2 x 2.5 mm ² without cable end
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
Minimum pulse duration	0.05 s
Reset time	350 ms on de-energisation
On-load factor	100 %
Power consumption in VA	32 VA at 240 V
Breaking capacity	0.5 A AC/DC conforming to UL

	0.7 A AC/DC at 20 °C
Maximum output current	20 A
Minimum switching current	10 mA
Maximum leakage current	5 mA
Maximum switching voltage	250 V
Maximum voltage drop	<4 V 3-wire <8 V 2-wire
Electrical durability	100000000 cycles
Mechanical durability	100000000 cycles
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
Mounting support	35 mm symmetrical mounting rail conforming to EN 50022
Net weight	0.06 kg

Environment

Immunity to microbreaks	10 ms
Derating factor	5 mA/°C
Dielectric strength	2.5 V 1 mA/1 minute conforming to IEC 60255-5 2.5 V 1 mA/1 minute conforming to IEC 60664
Standards	EN 50082-1/2 93/68/EEC IEC 60669-2-3 IEC 61812-1 89/336/EEC EN 50081-1/2 73/23/EEC
Product certifications	CSA cULus
Ambient air temperature for storage	-30...60 °C
Ambient air temperature for operation	-20...60 °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= 10...55 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 air conforming to IEC 61000-4-2 level 3 8 kV in contact 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 (0.15...80 MHz) conforming to ENV 50141 (IEC 61000-4-6 level 3)
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)

Packing Units

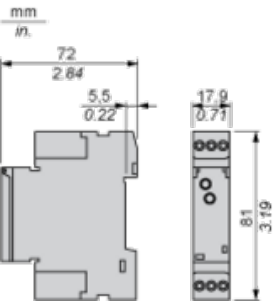
Package 1 Weight	0.066 kg
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Package 1 Height	0.240 dm
Package 1 width	0.780 dm
Package 1 Length	0.850 dm

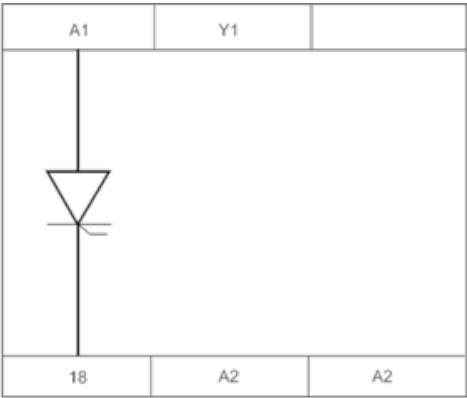
Contractual warranty

Warranty	18 months
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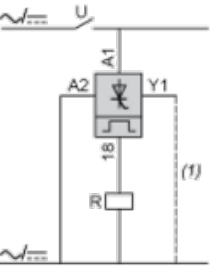
Width 17.5 mm



Internal Wiring Diagram



Wiring Diagram



1 Link A2-Y1 for function L only.

Function L : Asymmetrical Flasher Relay (Starting Pulse Off)

Description

Repetitive cycle comprises of two, independently adjustable timing periods T_a and T_r . Each timing period corresponds to a different state of the output R.

Function: 1 Output



Function Li : Asymmetrical Flasher Relay (Starting Pulse On)

Description

Repetitive cycle comprises of two, independently adjustable timing periods T_a and T_r . Each timing period corresponds to a different state of the output R.

Function: 1 Output



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 period
Ta -	Adjustable On-delay
Tr -	Adjustable Off-delay
U	Supply

Recommended replacement(s)

RE11LLBM is replaced by the following product range:



Harmony Timer Relays

Near Field Communication and conventional Timer Relays (formerly known as Zelio Timer Relays)

Products: 83