Product data sheet
Characteristics

RE11LLBM
asymmetrical flashing relay - 0.1..1 s - 24..240 V AC - solid state output

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	L Li
Time delay range	0.1...1 s 1...10 h 1...10 min 1...10 s 10...100 h 6...60 min 6...60 s
[Us] rated supply voltage	24...240 V AC 50/60 Hz

Complementary

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Control type	Selector switch on front panel
Voltage range	0.85...1.1 Us
Nominal output current	0.7 A
Connections - terminals	Screw terminals, clamping capacity: 2 x 2.5 mm² without cable end Screw terminals, clamping capacity: 2 x 1.5 mm² with cable end Screw terminals, clamping capacity: 1 x 4 mm² 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 240 V
Breaking capacity	0.7 A AC/DC at 20 °C 0.5 A AC/DC conforming to UL
Maximum output current	20 A < 10 ms
Minimum switching current	10 mA
Leakage current	< 5 mA
Maximum switching voltage	250 V
Voltage drop	8 V 2-wire 4 V 3-wire
Electrical durability	100000000 cycles
Mechanical durability	100000000 cycles
Marking	CE
Creepage distance	4 kV/3 conforming to IEC 60664-1
Surge withstand	2 kV (common mode) conforming to IEC 61000-4-5 level 3 1 kV (differential mode) conforming to IEC 61000-4-5 level 3
Mounting support	35 mm symmetrical mounting rail conforming to EN 50022
Product weight	0.06 kg

Environment

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Immunity to microbreaks	> 10 ms
Derating factor	5 mA/°C
Dielectric strength	2.5 V 1 mA/1 minute conforming to IEC 60664 2.5 V 1 mA/1 minute conforming to IEC 60255-5
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 CULus
Ambient air temperature for storage	-30...60 °C
Ambient air temperature for operation	-20...60 °C
IP degree of protection	IP50 (front panel) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP20 (terminal block) 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	8 kV (in contact) conforming to IEC 61000-4-2 level 3 6 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 IEC 61000-4-3 level 3 10 V/m, 80 MHz to 1 GHz conforming to ENV 50140/204 level 3
Resistance to fast transients	2 kV, direct conforming to IEC 61000-4-4 level 3 1 kV, capacitive connecting clip 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	95 % / 5 s conforming to IEC 61000-4-11 60 % / 100 ms conforming to IEC 61000-4-11 30 % / 10 ms conforming to IEC 61000-4-11
Disturbance radiated/conducted	Class B conforming to EN 55022 (EN 55011 group 1)

Width 17.5 mm
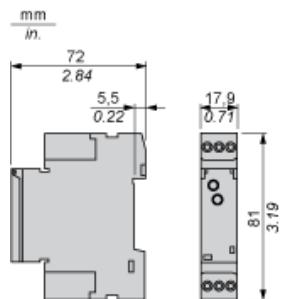
Internal Wiring Diagram
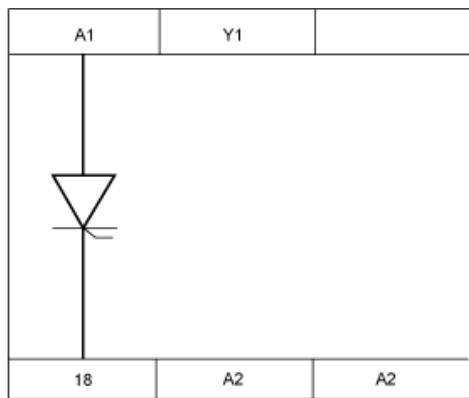
Wiring Diagram
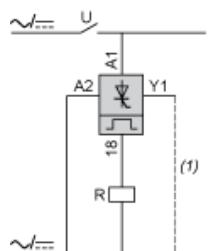
1   Link A2-Y1 for function L only.

RE11LLBM

Description

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

Function: 1 Output

Function Li : Asymmetrical Flasher Relay (Starting Pulse On)

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

Function: 1 Output
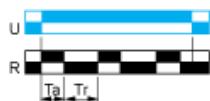
Legend

 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