Product data sheet Characteristics

RE17LCBM

off-delay timing relay - control - 1 s..100 h - 24..240 V - solid state output



Main	
Range of product	Zelio Time
Product or component type	Modular timing relay
Discrete output type	Solid state
Width	17.5 mm
Component name	RE17L
Time delay type	С
Time delay range	0.11 s 110 h 110 min 110 s 10100 h 660 min 660 s
[Us] rated supply voltage	24240 V AC 50/60 Hz
Nominal output current	0.7 A

Complementary

Control type	Selector switch on front panel	
Voltage range	0.851.1 Us	
Supply frequency	5060 Hz (+/- 5 %)	
Release of input voltage	7 V	
Control signal pulse width	0.05 s typical	
Insulation resistance	100 MOhm at 500 V DC conforming to IEC 60664-1	
[Uimp] rated impulse withstand voltage	5 kV (1.2/50 μs)	
Power on delay	< 100 ms	
Connections - terminals	Screw terminals, clamping capacity: 2 x 0.22 x 1.5 mm² AWG24AWG16 (flexible) with cable end Screw terminals, clamping capacity: 1 x 0.21 x 2.5 mm² AWG24AWG14 (flexible) with cable end Screw terminals, clamping capacity: 2 x 0.52 x 2.5 mm² AWG20AWG14 (solid) without cable end Screw terminals, clamping capacity: 1 x 0.51 x 3.3 mm² AWG20AWG12 (solid) without cable end	
Tightening torque	0.61 N.m conforming to IEC 60947-1	
Dielectric strength	2.5 kV 1 mA/1 minute 50 Hz conforming to IEC 61812-1	
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	
Reset time	350 ms on de-energisation typical	
On-load factor 100 %		
Power consumption in VA	<= 3 VA at 240 V AC	
Power consumption in W	<= 1.5 W at 240 V DC	
Breaking capacity	0.7 A AC/DC at 20 °C 0.5 A AC/DC conforming to UL	
Operating frequency	10 Hz	
Maximum output current	20 A <= 10 ms	
Minimum switching current	10 mA	
Leakage current	< 5 mA	

Maximum switching voltage	250 V AC
Voltage drop	8 V 2-wire 4 V 3-wire
Electrical durability	100000000 cycles
Marking	CE
Creepage distance	4 kV/3 conforming to IEC 60664-1
Mounting position	Any position in relation to normal vertical mounting plane
Mounting support	35 mm DIN rail conforming to EN/IEC 60715
Product weight	0.068 kg
Immunity to microbreaks	<= 20 ms
Immunity to microbreaks	<= 20 ms
Derating factor	5 mA/°C
Standards	2004/108/EC EN 61000-6-1
	EN 61000-6-2
	EN 61000-6-3
	EN 61000-6-4
	IEC 61812-1
	2006/95/EC
Product certifications	CSA
	CULus
	GL
Ambient air temperature for storage	-3060 °C
Ambient air temperature for operation	-2060 °C

IP50 (front panel) conforming to IEC 60529

20 m/s² (f = 10...150 Hz) conforming to IEC 60068-2-6

15 gn (duration = 11 ms) conforming to IEC 60068-2-27

93 % without condensation conforming to IEC 60068-2-30

Conducted and radiated emissions conforming to EN 55022 class B

Voltage dips and interruptions immunity test, 25/30 cycles at 70 % conforming to

Voltage dips and interruptions immunity test, 1 cycle at 0 % conforming to IEC

Conducted RF disturbances, 0.15...80 MHz at 10 V conforming to IEC 61000-4-6

1.2/50 µs shock waves immunity test, common mode at 2 kV conforming to IEC

1.2/50 µs shock waves immunity test, differential mode at 1 kV conforming to IEC

Susceptibility to electromagnetic fields, 80 MHz to 1 GHz at 10 V/m conforming to

Electrostatic discharge immunity test, in air at 8 kV conforming to IEC 61000-4-2

Electrostatic discharge immunity test, in contact at 6 kV conforming to IEC

Electrical fast transient/burst immunity test, direct at 2 kV conforming to IEC

Electrical fast transient/burst immunity test, capacitive connecting clip at 1 kV

IP40 (housing) conforming to IEC 60529 IP20 (terminal block) conforming to IEC 60529

IEC 61000-4-11

61000-4-5 level 3

61000-4-5 level 3

61000-4-4 level 3

IEC 61000-4-3 level 3

61000-4-2 level 3

conforming to IEC 61000-4-4 level 3

61000-4-11

level 3



IP degree of protection

Vibration resistance

Shock resistance

Relative humidity

Electromagnetic compatibility

Product data sheet Technical Description

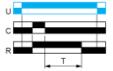
RE17LCBM

Function C: Off-Delay Relay with Control Signal

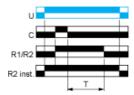
Description

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.)

Legend



- C Control contact
- G Gate
- R Relay or solid state output

R1/ 2 timed outputs

R2

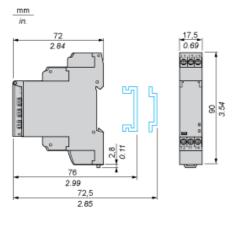
R2 The second output is instantaneous if the right position is selected

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

Product data sheet Dimensions Drawings

RE17LCBM

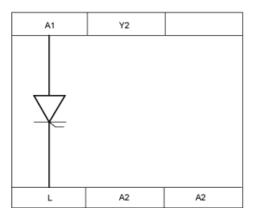
Width 17.5 mm



Product data sheet Connections and Schema

RE17LCBM

Internal Wiring Diagram



Wiring Diagram

