

Product datasheet

Specifications



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

RE17LCBM

Main

Range of product	Harmony Timer Relays
Product or component type	Single function relay
Discrete output type	Solid state
Width	17.5 mm
Component name	RE17L
Time delay type	Off-delay
Time delay range	10...100 h 6...60 s 6...60 min 1...10 h 1...10 s 1...10 min 0.1...1 s
Nominal output current	0.7 A

Complementary

Control type	Selector switch front panel
[Us] rated supply voltage	24...240 V AC 50/60 Hz
Voltage range	0.85...1.1 Us
Supply frequency	50...60 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 during 1.2/50 µs
Power on delay	100 ms
Connections - terminals	Screw terminals, 1 x 0.5...1 x 3.3 mm ² (AWG 20...AWG 12) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm ² (AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm ² (AWG 24...AWG 14) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm ² (AWG 24...AWG 16) flexible with cable end
Tightening torque	0.6...1 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	0...3 VA at 240 V AC
Breaking capacity	0.5 A AC conforming to UL 0.7 A AC at 20 °C
Operating frequency	10 Hz
Maximum output current	20 A
Minimum switching current	10 mA
Maximum leakage current	5 mA
Maximum switching voltage	250 V AC
Maximum voltage drop	<4 V 3-wire <8 V 2-wire
Electrical durability	100000000 cycles
Marking	CE
Creepage distance	4 kV/3 conforming to IEC 60664-1
Safety reliability data	MTTFd = 353.8 years B10d = 320000
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 C
Functionality	Off-delay timing
Compatibility code	RE17

Environment

Immunity to microbreaks	20 ms
Derating factor	5 mA/°C
Standards	2004/108/EC EN 61000-6-3 2006/95/EC EN 61000-6-2 IEC 61812-1 EN 61000-6-4 EN 61000-6-1
Product certifications	CSA GL 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	20 m/s ² (f= 10...150 Hz) conforming to IEC 60068-2-6
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27
Relative humidity	93 % without condensation conforming to IEC 60068-2-30
Electromagnetic compatibility	Electrostatic discharge immunity test: (in contact), level 3, 6 kV, conforming to IEC 61000-4-2 Electrostatic discharge immunity test: (in air), level 3, 8 kV, conforming to IEC 61000-4-2

Susceptibility to electromagnetic fields: (80 MHz to 1 GHz), level 3, 10 V/m, conforming to IEC 61000-4-3
 Electrical fast transient/burst immunity test: (capacitive connecting clip), level 3, 1 kV, conforming to IEC 61000-4-4
 Electrical fast transient/burst immunity test: (direct), level 3, 2 kV, conforming to IEC 61000-4-4
 1.2/50 µs shock waves immunity test: (differential mode), level 3, 1 kV, conforming to IEC 61000-4-5
 1.2/50 µs shock waves immunity test: (common mode), level 3, 2 kV, conforming to IEC 61000-4-5
 Conducted RF disturbances: (0.15...80 MHz), level 3, 10 V, conforming to IEC 61000-4-6
 Voltage dips and interruptions immunity test: (1 cycle), 0 %, conforming to IEC 61000-4-11
 Voltage dips and interruptions immunity test: (25/30 cycles), 70 %, conforming to IEC 61000-4-11
 Conducted and radiated emissions: , class B, conforming to EN 55022

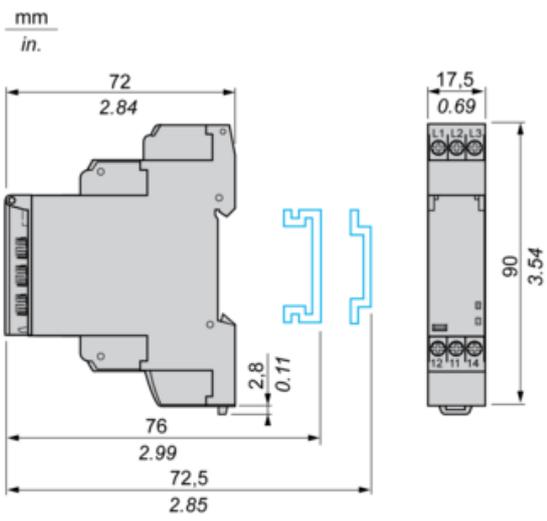
Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.7 cm
Package 1 Width	7.8 cm
Package 1 Length	9.5 cm
Package 1 Weight	71.0 g
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Height	15.0 cm
Package 2 Width	30.0 cm
Package 2 Length	40.0 cm
Package 2 Weight	3.348 kg

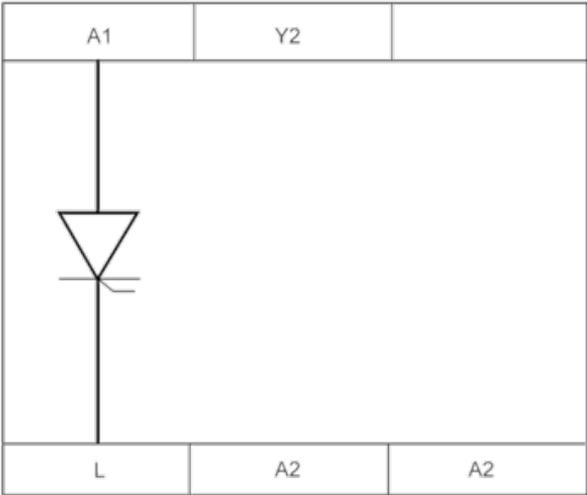
Offer Sustainability

Sustainable offer status	Green Premium product
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration
Mercury free	Yes
China RoHS Regulation	China RoHS declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

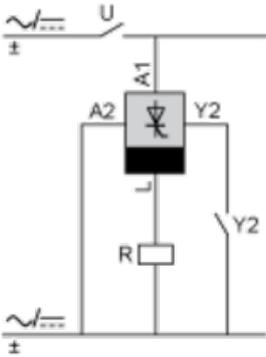
Width 17.5 mm



Internal Wiring Diagram



Wiring Diagram

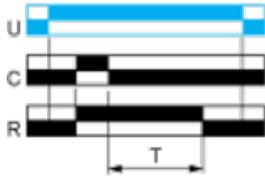


Function C : Off-Delay Relay with Control Signal

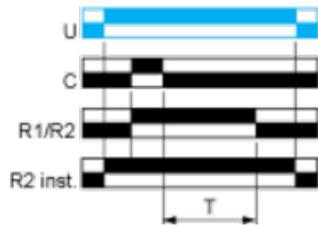
Description

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

-  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)