

# Product datasheet

Specifications



single function relay, Harmony  
Timer Relays, 0.7A, 1s..100h, off  
delay, solid state output, 24 to  
240V AC

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 mm² (AWG 20...AWG 12) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm² (AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm² (AWG 24...AWG 14) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm² (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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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 IEC 60715
Function Available	C- Off-delay relay w/ control signal-1 solid state output
Control Type	Without test button
Net Weight	0.068 kg
Time Delay Type	C
Functionality	Off-delay timing
Number Of Functions	1
Compatibility Code	RE17

## Environment

Immunity To Microbreaks	20 ms
Derating Factor	5 mA/°C
Standards	2004/108/EC IEC 61000-6-3 2006/95/EC IEC 61000-6-2 IEC 61812-1 IEC 61000-6-4 IEC 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/s² (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 $\mu$ s shock waves immunity test: (differential mode), level 3, 1 kV, conforming to IEC 61000-4-5 1.2/50 $\mu$ s 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

Sustainability



**Green Premium™ label** is Schneider Electric’s commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO<sub>2</sub> products.

**Guide to assessing product sustainability** is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

[Learn more about Green Premium >](#)

[Guide to assess a product’s sustainability >](#)



Transparency   RoHS/REACH

Well-being performance

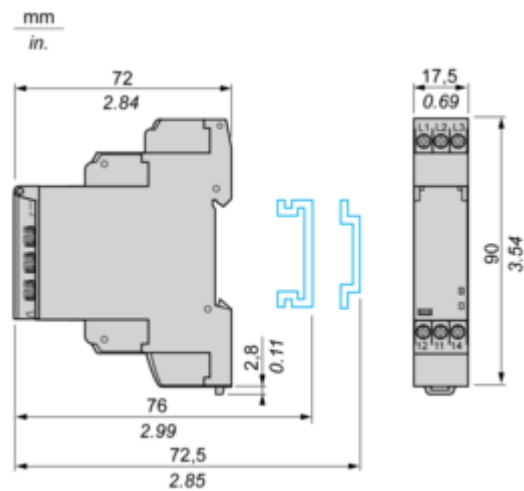
<div>✓</div>	Mercury Free	
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<div>✓</div>	Rohs Exemption Information	Yes
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Certifications & Standards

Reach Regulation	<a href="#">REACH Declaration</a>
<hr/>	
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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China Rohs Regulation	<a href="#">China RoHS declaration</a>
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Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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Circularity Profile	<a href="#">End of Life Information</a>
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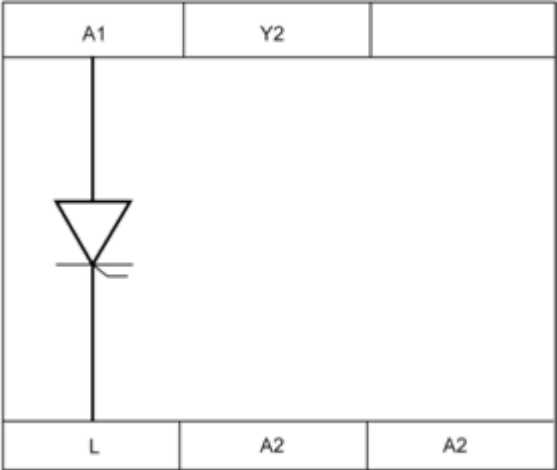
Dimensions Drawings

Width 17.5 mm

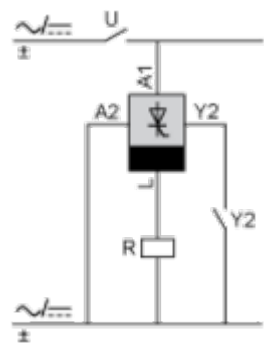


Connections and Schema

Internal Wiring Diagram



Wiring Diagram



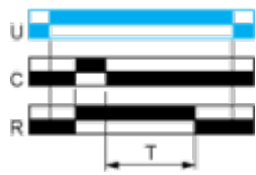
Technical Description

Function C : Off-Delay Relay with Control Signal

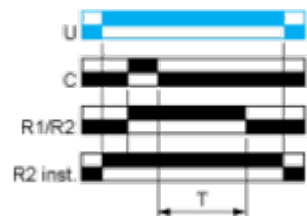
Description

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



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