

Product datasheet

Specifications



on-delay timing relay - 1 s..100 h -
24..240 VAC - solid state output,
spring terminal

RE17LHBMS

⚠ Discontinued on: 1 Nov 2020

⚠ Discontinued

Main

Range of product	Harmony Relay
Discrete output type	Solid state
Product or component type	Modular timing relay
Width	17.5 mm
Component name	RE17L
Time delay range	1...10 s 1...10 h 0.1...1 s 6...60 s 6...60 min 1...10 min 10...100 h
nominal output current	0.7 A

Complementary

Height	90 mm
Depth	72 mm
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	9 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	Spring terminals, 2 x 0.2...2 x 1.5 mm ² (AWG 24...AWG 16) solid without cable end Spring terminals, 2 x 0.2...2 x 1.5 mm ² (AWG 24...AWG 16) flexible without cable end
Dielectric strength	2.5 kV 1 mA/1 minute 50 Hz conforming to IEC 61812-1
Housing material	Polycarbonate
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
Net weight	0.05 kg
Time delay type	H
Functionality	On-delay timing
Compatibility code	RE17

Environment

Immunity to microbreaks	20 ms
Derating factor	5 mA/°C
Standards	2006/95/EC EN 61000-6-1 EN 61000-6-3 EN 61000-6-2 IEC 61812-1 EN 61000-6-4 2004/108/EC
Product certifications	CSA cULus DNV-GL EAC
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 μ s shock waves immunity test: (differential mode), level 3, 1 kV, conforming to IEC 61000-4-5
	1.2/50 μ 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	7.2 cm
Package 1 Width	1.75 cm
Package 1 Length	9 cm
Package 1 Weight	60 g



Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

[Environmental Disclosure](#)

[Product Environmental Profile](#)

Use Better



Materials and Substances

SCIP Number

7bdc2711-0ad2-427c-8ece-532c5e9f09d7

EU RoHS Directive

[Compliant By Exemption](#)

Use Longer



Lifetime extension

Repair

No

Use Again



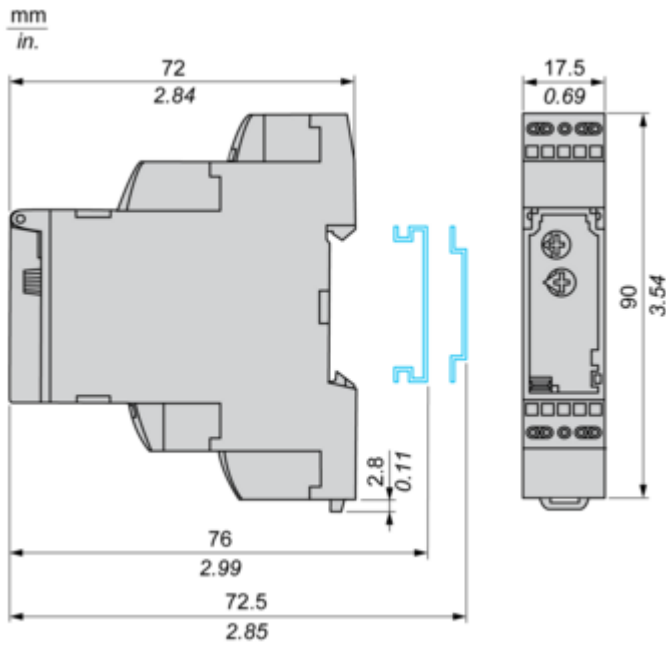
Repack and remanufacture

End of life manual availability

[End of Life Information](#)

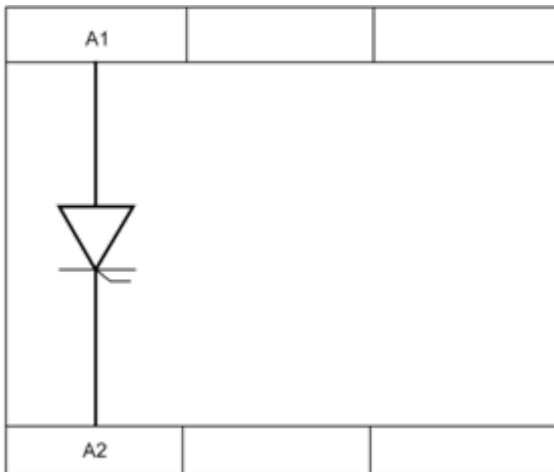
Dimensions Drawings

Dimensions

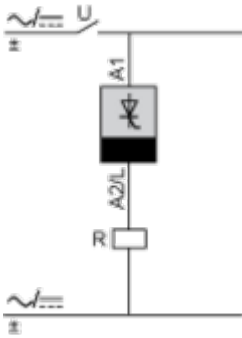


Connections and Schema

Internal Wiring Diagram



Wiring Diagram



Technical Description

Function H : Interval Relay

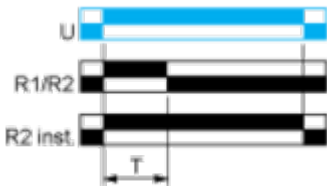
Description

On energisation of the relay, timing period T starts and the output(s) R close(s). At the end of the timing period T, 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

Technical Illustration

Dimensions

