

# Product datasheet

Specifications



## on-delay timing relay - 1 s..100 h - 24..240 V AC/DC - solid state output

RE17LAMW

### Main

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

### Complementary

Control type	Selector switch front panel
[Us] rated supply voltage	24...240 V AC/DC 50/60 Hz
Voltage range	0.85...1.1 Us
Supply frequency	50...60 Hz +/- 5 %
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 <sup>2</sup> (AWG 20...AWG 12) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm <sup>2</sup> (AWG 20...AWG 14) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm <sup>2</sup> (AWG 24...AWG 14) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm <sup>2</sup> (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
Time delay type	Power on-delay - A- Power on-delay relay

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

<b>Reset time</b>	350 ms on de-energisation typical
<b>On-load factor</b>	100 %
<b>Power consumption in VA</b>	0...3 VA at 240 V AC
<b>Maximum power consumption in W</b>	1.5 W at 240 V DC
<b>Breaking capacity</b>	0.5 A AC/DC conforming to UL 0.7 A AC/DC at 20 °C
<b>operating frequency</b>	10 Hz
<b>Maximum output current</b>	20 A
<b>Minimum switching current</b>	10 mA
<b>Maximum leakage current</b>	5 mA
<b>Maximum switching voltage</b>	250 V AC/DC
<b>Maximum voltage drop</b>	<4 V 3-wire <8 V 2-wire
<b>Electrical durability</b>	100000000 cycles
<b>Marking</b>	CE
<b>Creepage distance</b>	4 kV/3 conforming to IEC 60664-1
<b>Safety reliability data</b>	MTTFd = 353.8 years B10d = 320000
<b>Mounting position</b>	Any position in relation to normal vertical mounting plane
<b>Mounting support</b>	35 mm DIN rail conforming to IEC 60715
<b>Function available</b>	A- Power on-delay relay-1 solid state output
<b>Control type</b>	Without test button
<b>Net weight</b>	0.068 kg
<b>Time delay type</b>	A
<b>Functionality</b>	On-delay timing
<b>Number of functions</b>	1
<b>Compatibility code</b>	RE17

## Environment

<b>Immunity to microbreaks</b>	20 ms
<b>Derating factor</b>	5 mA/°C
<b>Standards</b>	2004/108/EC IEC 61000-6-1 2006/95/EC IEC 61000-6-3 IEC 61000-6-2 IEC 61812-1 IEC 61000-6-4
<b>Product certifications</b>	GL CSA cULus
<b>Ambient air temperature for storage</b>	-30...60 °C
<b>Ambient air temperature for operation</b>	-20...60 °C
<b>IP degree of protection</b>	IP20 (terminal block) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP50 (front panel) conforming to IEC 60529
<b>Vibration resistance</b>	20 m/s <sup>2</sup> (f= 10...150 Hz) conforming to IEC 60068-2-6

<b>Shock resistance</b>	15 gn for 11 ms conforming to IEC 60068-2-27
<b>Relative humidity</b>	93 % without condensation conforming to IEC 60068-2-30
<b>Electromagnetic compatibility</b>	<p>Electrostatic discharge immunity test: (in contact), level 3, 6 kV, conforming to IEC 61000-4-2</p> <p>Electrostatic discharge immunity test: (in air), level 3, 8 kV, conforming to IEC 61000-4-2</p> <p>Susceptibility to electromagnetic fields: (80 MHz to 1 GHz), level 3, 10 V/m, conforming to IEC 61000-4-3</p> <p>Electrical fast transient/burst immunity test: (capacitive connecting clip), level 3, 1 kV, conforming to IEC 61000-4-4</p> <p>Electrical fast transient/burst immunity test: (direct), level 3, 2 kV, conforming to IEC 61000-4-4</p> <p>1.2/50 <math>\mu</math>s shock waves immunity test: (differential mode), level 3, 1 kV, conforming to IEC 61000-4-5</p> <p>1.2/50 <math>\mu</math>s shock waves immunity test: (common mode), level 3, 2 kV, conforming to IEC 61000-4-5</p> <p>Conducted RF disturbances: (0.15..80 MHz), level 3, 10 V, conforming to IEC 61000-4-6</p> <p>Voltage dips and interruptions immunity test: (1 cycle), 0 %, conforming to IEC 61000-4-11</p> <p>Voltage dips and interruptions immunity test: (25/30 cycles), 70 %, conforming to IEC 61000-4-11</p> <p>Conducted and radiated emissions: , class B, conforming to EN 55022</p>

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	2.600 cm
<b>Package 1 Width</b>	7.800 cm
<b>Package 1 Length</b>	9.500 cm
<b>Package 1 Weight</b>	70.000 g
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	40
<b>Package 2 Height</b>	15.000 cm
<b>Package 2 Width</b>	30.000 cm
<b>Package 2 Length</b>	40.000 cm
<b>Package 2 Weight</b>	3.270 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

Mercury Free

Rohs Exemption Information Yes

## Certifications & Standards

Reach Regulation [REACH Declaration](#)

Eu Rohs Directive Pro-active compliance (Product out of EU RoHS legal scope)

China Rohs Regulation [China RoHS declaration](#)

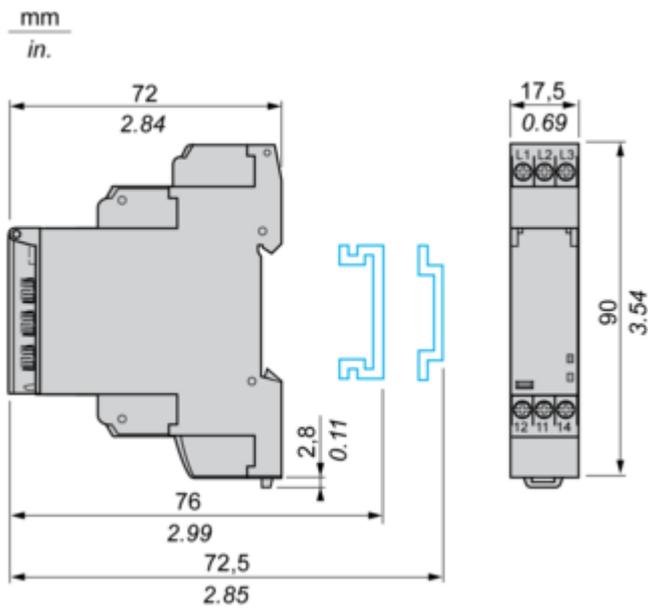
Environmental Disclosure [Product Environmental Profile](#)

Circularity Profile [End of Life Information](#)

Dimensions Drawings

Width 17.5 mm

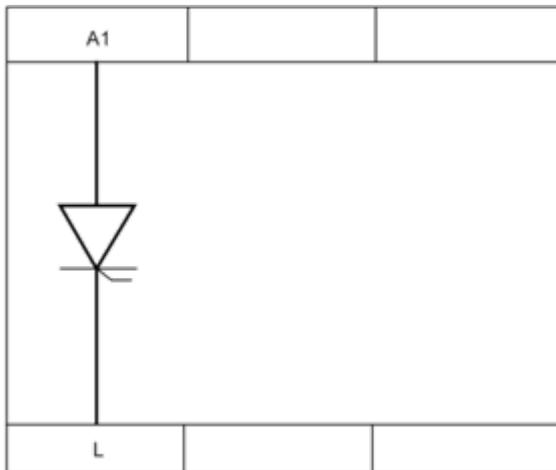
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Connections and Schema

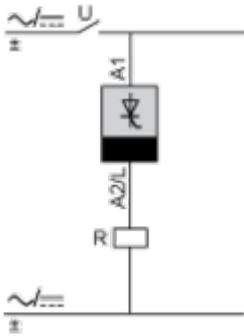
Internal Wiring Diagram

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Wiring Diagram

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Technical Description

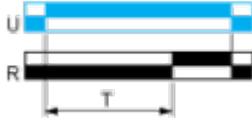
**Function A : Power on Delay Relay**

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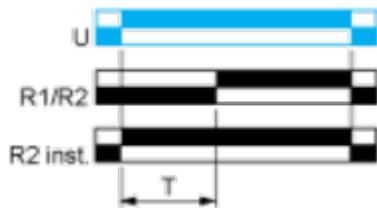
**Description**

The timing period T begins on energisation. After timing, the output(s) R close(s). 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**

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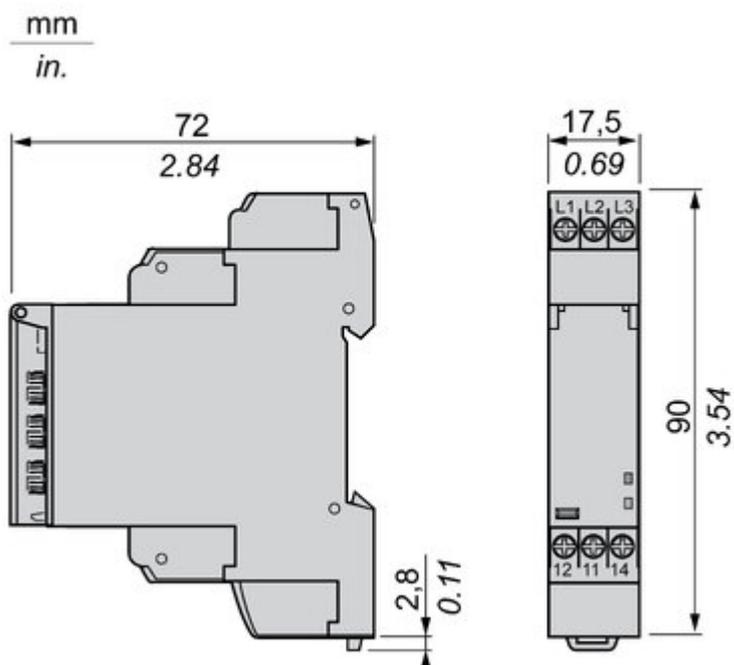
-  Relay de-energised
-  Relay energised
-  Output open
-  Output closed

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

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Offer Marketing Illustration

Product benefits / Features

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## Technical Benefits

### Harmony Timer Relay

Flexible choice of screw or spring connection terminals for wiring.

One product reference covering 28 timing functions, 2 outputs, and a wide range of supply voltage 24...240 V AC/DC.

Dust and unintended human intervention avoided thanks to the IP50 lead-sealable settings protection cover.



A Dial-Pointer LED indicator that enhances ease of operation in difficult environments such as dusty or low-light conditions

Different mounting style to meet your preference:  
DIN rail mount with product width; 17.5 mm/0.69 in.  
22.5 mm/0.88 in.  
Plug in mounting with socket

Offer Marketing Illustration

Product benefits / Features

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## Features

### Harmony Timer Relay



"Diagnostic button" to check downstream circuit immediately, shorten the commission and troubleshooting time



Compatible with a wide range of applications including machines, buildings, water segments, and HVAC.





Wide range of time delay for adjustment: from 0.01 s to 999 hrs.



Compliant with IEC 60255-1 standard, and a wide array of product certifications such as UL, CE, CSA, EAC.



Unprecedented accuracy, predictive maintenance, and superior security.

Image of product / Alternate images

Alternative

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