

# Product data sheet

Specifications



Harmony, Modular timing relay, 8 A, 1 CO, 1 s..100 h, asymmetrical flashing, 24 V DC / 24...240 V AC/DC

RE17RLMU



## Main

Range of product	Harmony Timer Relays
Product or component type	Dual function relay
Discrete output type	Relay
Width	17.5 mm
Device short name	RE17R
Time delay type	Asymmetrical flashing
Time delay range	1...10 h 1...10 s 0.1...1 s 6...60 min 1...10 min 10...100 h 6...60 s
Nominal output current	8 A

## Complementary

Contacts type and composition	1 C/O
Contacts material	Cadmium free
Height	90 mm
Depth	72 mm
Control type	Selector switch front panel
[Us] rated supply voltage	24...240 V AC 50/60 Hz 24 V DC
Voltage range	0.85...1.1 Us
Supply frequency	50...60 Hz +/- 5 %
Release of input voltage	10 V
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
Housing material	Self-extinguishing
Repeat accuracy	+/- 0.5 % conforming to IEC 61812-1
Temperature drift	+/- 0.05 %/°C

<b>Voltage drift</b>	+/- 0.2 %/V
<b>Setting accuracy of time delay</b>	+/- 10 % of full scale at 25 °C conforming to IEC 61812-1
<b>Control signal pulse width</b>	100 ms with load in parallel typical 30 ms typical
<b>Insulation resistance</b>	100 MOhm at 500 V DC conforming to IEC 60664-1
<b>Reset time</b>	120 ms on de-energisation typical
<b>On-load factor</b>	100 %
<b>Power consumption in VA</b>	0...32 VA at 240 V AC
<b>Maximum power consumption in W</b>	0.6 W at 24 V DC
<b>Minimum switching current</b>	10 mA at 5 V DC
<b>Maximum switching current</b>	8 A AC/DC
<b>Maximum switching voltage</b>	250 V AC
<b>Breaking capacity</b>	2000 VA
<b>Operating frequency</b>	10 Hz
<b>Electrical durability</b>	100000 cycles (8 A at 250 V AC maximum) for resistive load
<b>Mechanical durability</b>	10000000 cycles
<b>Dielectric strength</b>	2.5 kV 1 mA/1 minute 50 Hz conforming to IEC 61812-1
<b>[Uimp] rated impulse withstand voltage</b>	5 kV during 1.2/50 µs
<b>Power on delay</b>	100 ms
<b>Marking</b>	CE
<b>Creepage distance</b>	4 kV/3 conforming to IEC 60664-1
<b>Safety reliability data</b>	MTTFd = 296.8 years B10d = 270000
<b>Mounting position</b>	Any position in relation to normal vertical mounting plane
<b>Mounting support</b>	35 mm DIN rail conforming to EN/IEC 60715
<b>Local signalling</b>	LED indicator for on steady: relay energised, no timing in progress LED indicator for flashing: timing in progress 80 % ON and 20 % OFF
<b>Net weight</b>	0.07 kg
<b>Time delay type</b>	L, Li
<b>Functionality</b>	Asymmetrical flashing timer
<b>Compatibility code</b>	RE17
<b>Environment</b>	
<b>Immunity to microbreaks</b>	20 ms
<b>Standards</b>	2006/95/EC EN 61000-6-2 EN 61000-6-4 2004/108/EC IEC 61812-1 EN 61000-6-3 EN 61000-6-1
<b>Product certifications</b>	GL cULus CSA
<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>	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

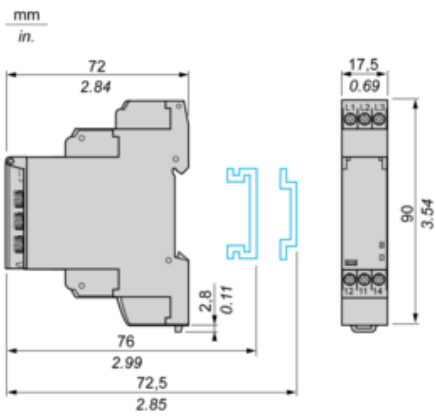
## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Weight</b>	81.0 g
<b>Package 1 Height</b>	2.8 cm
<b>Package 1 width</b>	7.8 cm
<b>Package 1 Length</b>	9.6 cm
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	40
<b>Package 2 Weight</b>	3.68 kg
<b>Package 2 Height</b>	15 cm
<b>Package 2 width</b>	30 cm
<b>Package 2 Length</b>	40 cm

## Offer Sustainability

<b>Sustainable offer status</b>	Green Premium product
<b>REACH Regulation</b>	<a href="#">REACH Declaration</a>
<b>EU RoHS Directive</b>	Pro-active compliance (Product out of EU RoHS legal scope) <a href="#">EU RoHS Declaration</a>
<b>Mercury free</b>	Yes
<b>RoHS exemption information</b>	<a href="#">Yes</a>
<b>China RoHS Regulation</b>	<a href="#">China RoHS declaration</a>
<b>Environmental Disclosure</b>	<a href="#">Product Environmental Profile</a>
<b>Circularity Profile</b>	<a href="#">End of Life Information</a>
<b>California proposition 65</b>	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a>

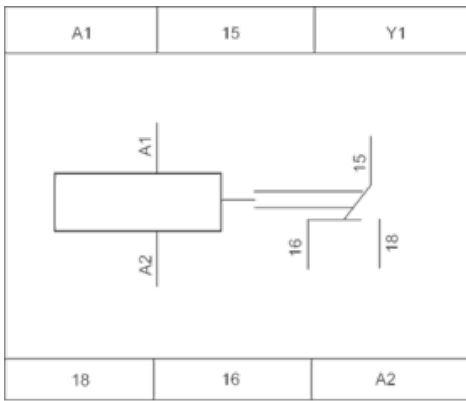
Width 17.5 mm



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**Internal Wiring Diagram**

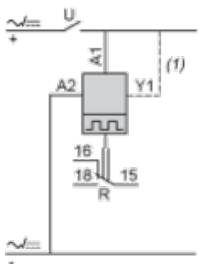
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Wiring Diagram

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1 Link A1-Y1 for function L only



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**Function L : Asymmetrical Flasher Relay (Starting Pulse Off)**

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**Description**

Repetitive cycle comprises of two, independently adjustable timing periods  $T_a$  and  $T_r$ . Each timing period corresponds to a different state of the output R.

**Function: 1 Output**



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**Function Li : Asymmetrical Flasher Relay (Starting Pulse On)**

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**Description**





Repetitive cycle comprises of two, independently adjustable timing periods  $T_a$  and  $T_r$ . Each timing period corresponds to a different state of the output R.

**Function: 1 Output**





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

