

# Product datasheet

Specifications



## Modular timing relay, Harmony Timer Relays, 8 A, 1 CO, 1 s..100 h, on delay, 24 V DC / 24...240 V AC/ DC

RE17RAMU

### Main

Range of product	Harmony Timer Relays
Discrete output type	Relay
Product or component type	Modular timing relay
Width	17.5 mm
Device short name	RE17R
Time delay type	Power on-delay
Time delay range	1...10 min 10...100 h 0.1...1 s 6...60 s 6...60 min 1...10 s 1...10 h
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
Voltage drift	+/- 0.2 %/V
Setting accuracy of time delay	+/- 10 % of full scale at 25 °C conforming to IEC 61812-1

<b>Time delay type</b>	Power on-delay - A- Power on-delay relay Power on-delay - At- Power on-delay relay w/ pause/summation (Y1)
<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>	B10d = 270000 MTTFd = 296.8 years
<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>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 LED indicator for pulsing: relay de-energised, no timing in progress (except function Di-D, Li-L) 5 % ON and 95 % OFF
<b>Function available</b>	A- Power on-delay relay-1 C/O At- Power on-delay relay w/ pause/summation (Y1)-1 C/O
<b>Net weight</b>	0.07 kg
<b>Control type</b>	Without test button
<b>Number of functions</b>	2
<b>Time delay type</b>	A, At
<b>Functionality</b>	On-delay timing
<b>Compatibility code</b>	RE17

## Environment

<b>Immunity to microbreaks</b>	20 ms
<b>Standards</b>	2006/95/EC 2004/108/EC IEC 61812-1 IEC 61000-6-3 IEC 61000-6-1 IEC 61000-6-4 IEC 61000-6-2

<b>Product certifications</b>	CSA cULus GL
<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 Height</b>	2.400 cm
<b>Package 1 Width</b>	7.800 cm
<b>Package 1 Length</b>	9.900 cm
<b>Package 1 Weight</b>	81.000 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>	3.670 kg
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	640
<b>Package 3 Height</b>	75.000 cm
<b>Package 3 Width</b>	60.000 cm
<b>Package 3 Length</b>	80.000 cm
<b>Package 3 Weight</b>	65.060 kg

## 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.

[How this information helps you >](#)

### Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)	15
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Environmental Disclosure	<a href="#">Product Environmental Profile</a>
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## Use Better

### Materials and Substances

Packaging made with recycled cardboard	Yes
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Packaging without single use plastic	Yes
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EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
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SCIP Number	7bdc2711-0ad2-427c-8ece-532c5e9f09d7
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REACH Regulation	<a href="#">REACH Declaration</a>
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China RoHS Regulation	<a href="#">China RoHS declaration</a>
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## Use Again

### Repack and remanufacture

Circularity Profile	<a href="#">End of Life Information</a>
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WEEE



The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins

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Take-back

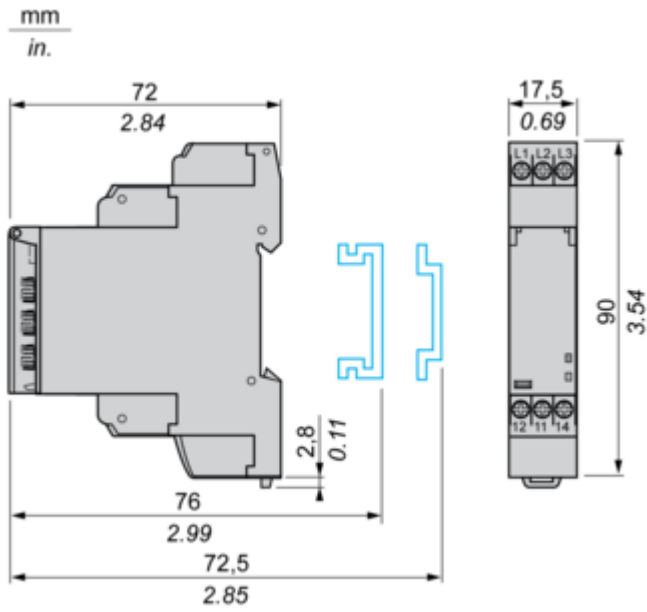
No

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Dimensions Drawings

Width 17.5 mm

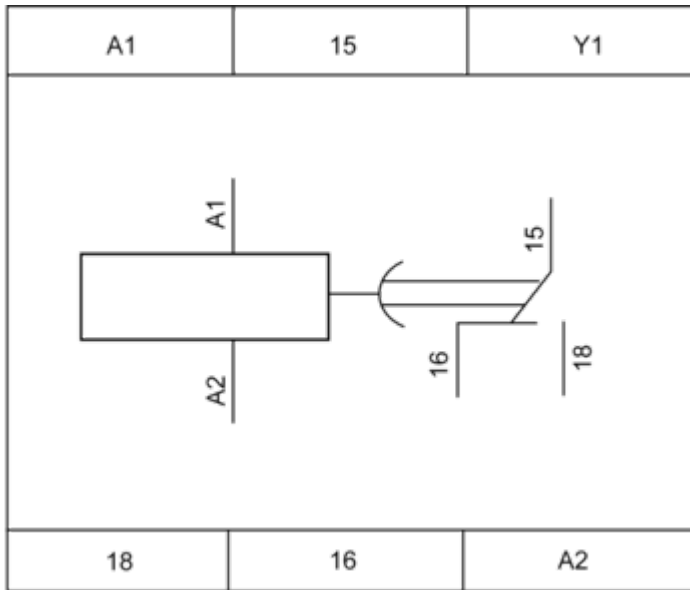
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Connections and Schema

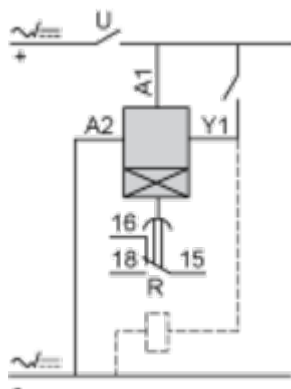
Internal Wiring Diagram

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Wiring Diagram

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Technical Description

**Function A : Power on Delay Relay**

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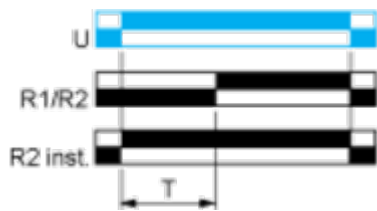
**Description**

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.)

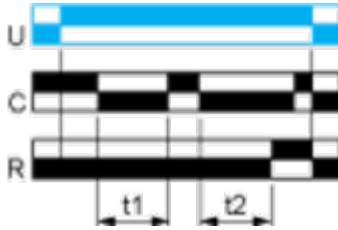
**Function At : Power on Delay Relay (Summation) with Control Signal**

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**Description**

After power-up, the first opening of control contact C starts the timing. Timing can be interrupted each time control contact closes. When the cumulative total of time periods elapsed reaches the pre-set value T, the output relay closes.





**Function: 1 Output**



$T = t1 + t2 + \dots$

**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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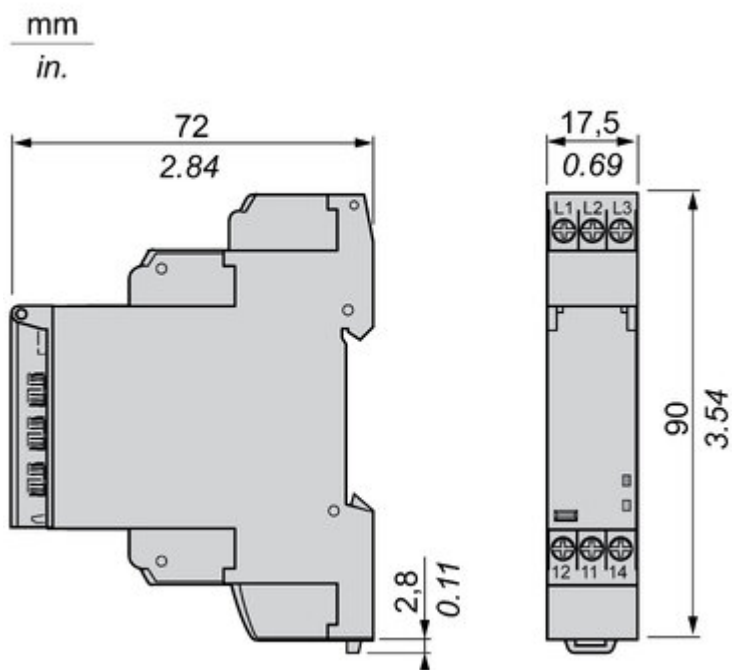


Image of product / Alternate images

Alternative

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