

# Product data sheet

Specifications



dual function relay, Harmony  
Timer Relays, 8A, 1CO, 1s..100h,  
on delay, 24V DC or 24...240V AC  
DC

RE17RAMU

Product availability: Stock - Normally stocked in distribution facility

Price\*: 42.90 USD

## Main

Range of Product	Harmony Timer Relays
Discrete output type	Relay
Product or Component Type	Modular timing relay
Width	0.7 in (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	3.5 in (90 mm)
Depth	2.8 in (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	5.3...8.9 lbf.in (0.6...1 N.m) IEC 60947-1
Housing material	Self-extinguishing
Repeat accuracy	+/- 0.5 % IEC 61812-1
Temperature Drift	+/- 0.05 %/°C

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

<b>Voltage drift</b>	+/- 0.2 %/V
<b>Setting accuracy of time delay</b>	+/- 10 % of full scale 25 °C 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 500 V DC 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 240 V AC
<b>Maximum power consumption in W</b>	0.6 W 24 V DC
<b>Minimum switching current</b>	10 mA 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 resistive 8 A 250 V AC
<b>Mechanical durability</b>	10000000 cycles
<b>Dielectric strength</b>	2.5 kV 1 mA/1 minute 50 Hz IEC 61812-1
<b>[Uimp] rated impulse withstand voltage</b>	5 kV 1.2/50 µs
<b>power on delay</b>	100 ms
<b>Marking</b>	CE
<b>Creepage distance</b>	4 kV/3 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 on steady: relay energised, no timing in progress LED indicator 80 % ON and 20 % OFF flashing: timing in progress LED indicator 5 % ON and 95 % OFF pulsing: relay de-energised, no timing in progress (except function Di-D, Li-L)
<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>	0.15 lb(US) (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>	-22...140 °F (-30...60 °C)
<b>Ambient Air Temperature for Operation</b>	-4...140 °F (-20...60 °C)
<b>IP degree of protection</b>	IP20 IEC 60529 terminal block) IP40 IEC 60529 housing) IP50 IEC 60529 front panel)
<b>Vibration resistance</b>	20 m/s <sup>2</sup> 10...150 Hz)IEC 60068-2-6
<b>Shock resistance</b>	15 gn 11 ms IEC 60068-2-27
<b>Relative Humidity</b>	93 % without condensation IEC 60068-2-30
<b>Electromagnetic compatibility</b>	Electrostatic discharge immunity test 6 kV in contact) level 3 IEC 61000-4-2 Electrostatic discharge immunity test 8 kV in air) level 3 IEC 61000-4-2 Susceptibility to electromagnetic fields 10 V/m 80 MHz to 1 GHz) level 3 IEC 61000-4-3 Electrical fast transient/burst immunity test 1 kV capacitive connecting clip) level 3 IEC 61000-4-4 Electrical fast transient/burst immunity test 2 kV direct) level 3 IEC 61000-4-4 1.2/50 µs shock waves immunity test 1 kV differential mode) level 3 IEC 61000-4-5 1.2/50 µs shock waves immunity test 2 kV common mode) level 3 IEC 61000-4-5 Conducted RF disturbances 10 V 0.15...80 MHz) level 3 IEC 61000-4-6 Voltage dips and interruptions immunity test 0 % 1 cycle) IEC 61000-4-11 Voltage dips and interruptions immunity test 70 % 25/30 cycles) IEC 61000-4-11 Conducted and radiated emissionsclass B EN 55022

## Ordering and shipping details

<b>Category</b>	US10CP222370
<b>Discount Schedule</b>	0CP2
<b>GTIN</b>	3606480552670
<b>Returnability</b>	Yes
<b>Country of origin</b>	ID

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	0.945 in (2.400 cm)
<b>Package 1 Width</b>	3.071 in (7.800 cm)
<b>Package 1 Length</b>	3.898 in (9.900 cm)
<b>Package 1 Weight</b>	2.857 oz (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>	5.906 in (15.000 cm)
<b>Package 2 Width</b>	11.811 in (30.000 cm)
<b>Package 2 Length</b>	15.748 in (40.000 cm)
<b>Package 2 Weight</b>	8.091 lb(US) (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>	29.528 in (75.000 cm)
<b>Package 3 Width</b>	23.622 in (60.000 cm)
<b>Package 3 Length</b>	31.496 in (80.000 cm)
<b>Package 3 Weight</b>	143.433 lb(US) (65.060 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](#)

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

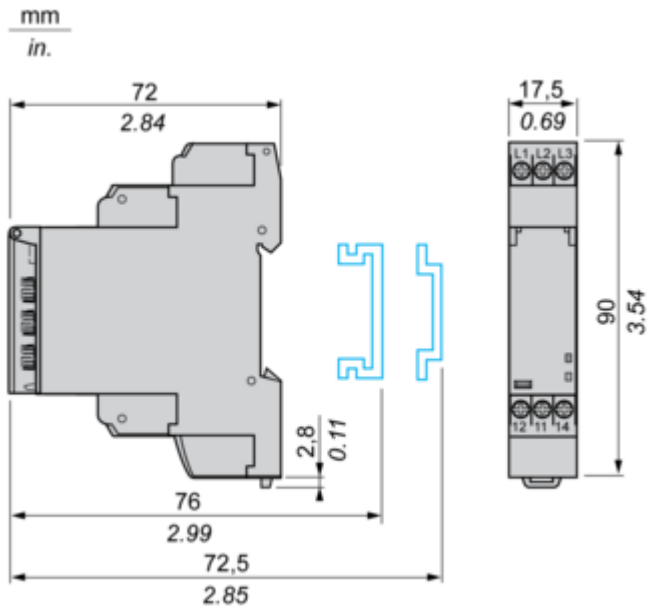
Circularity Profile [End of Life Information](#)

California Proposition 65 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 [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

Dimensions Drawings

Width 17.5 mm

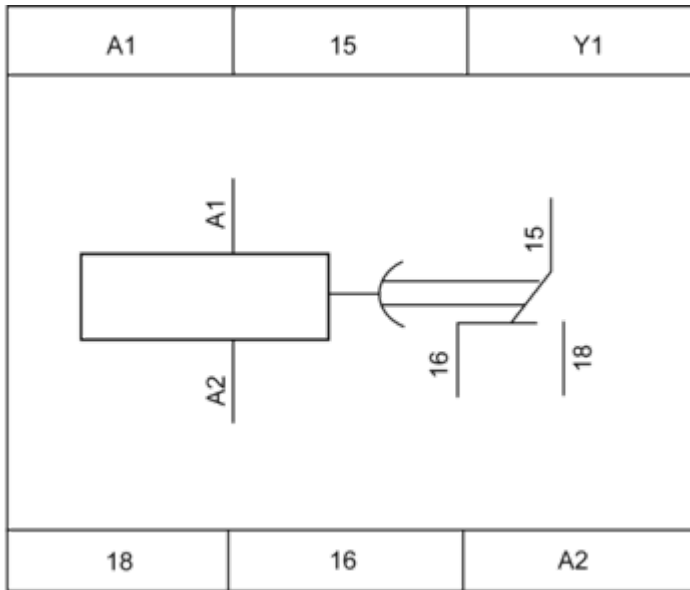
---



Connections and Schema

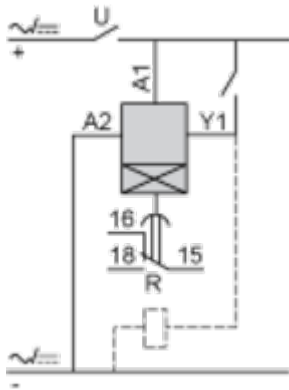
Internal Wiring Diagram

---



Wiring Diagram

---





Technical Description

Function A : Power on Delay Relay

---

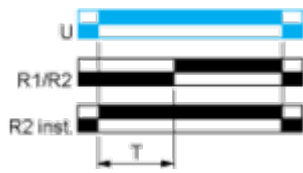
**Description**

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.)

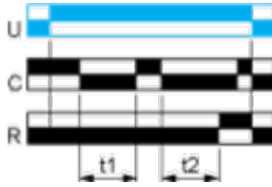
**Function At : Power on Delay Relay (Summation) with Control Signal**

---

**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**

---

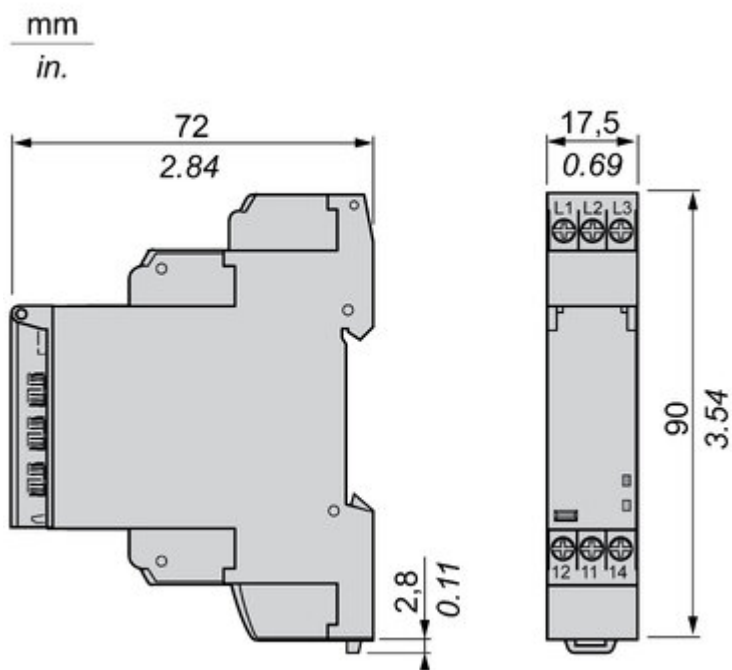
-  Relay de-energised
-  Relay energised
-  Output open
-  Output closed

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

---



Offer Marketing Illustration

Product benefits / Features

---

## 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

---

## 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

---



