

Product data sheet

Specifications



dual function relay, Harmony Timer Relays, 8A, 2CO, 0.1sâ€¦100h, power on delay, screw connectors, 24V DC or 24...240V AC DC

RE22R2AMU

Product availability: Stock - Normally stocked in distribution facility

Main

Range of Product	Harmony Timer Relays
Discrete output type	Relay
Product or Component Type	Modular timing relay
Device short name	RE22
nominal output current	8 A

Complementary

Contacts type and composition	2 C/O timed contact
Time delay type	Power on-delay
Time delay range	1...10 min 10...100 h 1...10 s 0.1...1 s 6...60 s 6...60 min 1...10 h
Control type	Rotary knob front panel
[Us] rated supply voltage	24...240 V AC 24 V DC
Voltage range	0.85...1.1 Us
Supply frequency	50...60 Hz +/- 5 %
Connections - terminals	Screw terminals, 2 x 1.5 mm ² with cable end Screw terminals, 2 x 2.5 mm ² without cable end
Tightening torque	5.3...8.9 lbf.in (0.6...1 N.m) IEC 60947-1
Housing material	Polycarbonate
Repeat accuracy	+/- 0.5 % IEC 61812-1
Temperature Drift	+/- 0.05 %/°C
Voltage drift	+/- 0.2 %/V
Setting accuracy of time delay	+/- 10 % of full scale 25 °C IEC 61812-1
Time delay type	Power on-delay - A- Power on-delay relay Power on-delay - At- Power on-delay relay w/ pause/summation (Y1)
Control signal pulse width	30 ms 100 ms under load
Insulation resistance	100 MOhm 500 V DC IEC 60664-1
Recovery time	120 ms on de-energisation

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

Immunity to microbreaks	10 ms
Power consumption in VA	50 VA 240 V AC
Power consumption in W	0.7 W 24 V DC
breaking capacity	2000 VA
Minimum switching current	10 mA 5 V
Maximum switching current	8 mA
Maximum switching voltage	250 V
Electrical durability	100000 cycles for resistive load, 8 A at 250 V, AC
Mechanical durability	10000000 cycles
Rated impulse withstand voltage	5 kV 1.2...50 μ s IEC 60664-1 5 kV IEC 61812-1
Power on delay	100 ms
Safety reliability data	MTTFd = 182.6 years B10d = 170000
Mounting position	Any position in relation to normal vertical mounting plane
Mounting support	35 mm DIN rail conforming to IEC 60715
Status LED	Green LED flashing)timing in progress Green LED steady)power ON Yellow LEDrelay energised
Function available	A- Power on-delay relay-2 C/O At- Power on-delay relay w/ pause/summation (Y1)-2 C/O
Width	0.9 in (22.5 mm)
Net Weight	0.20 lb(US) (0.09 kg)
Control Type	With test button
Number of functions	2

Environment

Dielectric strength	2.5 kV 1 mA/1 minute 50 Hz IEC 61812-1
Standards	IEC 61000-6-3 IEC 61000-6-4 IEC 61000-6-2 IEC 61812-1 IEC 61000-6-1
Directives	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive
Product Certifications	cULus CE EAC CSA RCM CCC GL
Ambient Air Temperature for Operation	-4...140 °F (-20...60 °C)
Ambient Air Temperature for Storage	-22...140 °F (-30...60 °C)
IP degree of protection	IP40 housing: conforming to IEC 60529 IP20 terminal block: conforming to IEC 60529 IP40 front face: conforming to IEC 60529
Vibration resistance	20 m/s ² (f= 10...150 Hz) conforming to IEC 60068-2-6
Shock resistance	15 gn 11 ms IEC 60068-2-27

Relative humidity	93 %, without condensation IEC 60068-2-30
Electromagnetic compatibility	<p>Electrostatic discharge immunity test - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2</p> <p>Electrostatic discharge immunity test - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2</p> <p>Fast transients immunity test - test level: 1 kV level 3 (capacitive connecting clip) conforming to IEC 61000-4-4</p> <p>Fast transients immunity test - test level: 2 kV level 3 (direct contact) conforming to IEC 61000-4-4</p> <p>Surge immunity test - test level: 1 kV level 3 (differential mode) conforming to IEC 61000-4-5</p> <p>Surge immunity test - test level: 2 kV level 3 (common mode) conforming to IEC 61000-4-5</p> <p>Radiated radio-frequency electromagnetic field immunity test - test level: 10 V level 3 (0.15...80 MHz) conforming to IEC 61000-4-6</p> <p>Electromagnetic field immunity test - test level: 10 V/m level 3 (80 MHz...1 GHz) conforming to IEC 61000-4-3</p> <p>Immunity to microbreaks and voltage drops - test level: 30 % (500 ms) conforming to IEC 61000-4-11</p> <p>Immunity to microbreaks and voltage drops - test level: 100 % (20 ms) conforming to IEC 61000-4-11</p> <p>Conducted and radiated emissions class B conforming to EN 55022</p>

Ordering and shipping details

Category	US10CP222376
Discount Schedule	0CP2
GTIN	3606480676567
Returnability	Yes
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	1.02 in (2.6 cm)
Package 1 Width	3.2 in (8.2 cm)
Package 1 Length	3.7 in (9.5 cm)
Package weight(Lbs)	3.6 oz (103.0 g)
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Height	5.9 in (15.0 cm)
Package 2 Width	11.8 in (30.0 cm)
Package 2 Length	15.7 in (40.0 cm)
Package 2 Weight	10.03 lb(US) (4.55 kg)

Contractual warranty

Warranty (in months)	18
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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

Total lifecycle Carbon footprint	54 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	2 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	52 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	7bdc2711-0ad2-427c-8ece-532c5e9f09d7
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

Use Longer



Lifetime extension

Repair	No
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Use Again

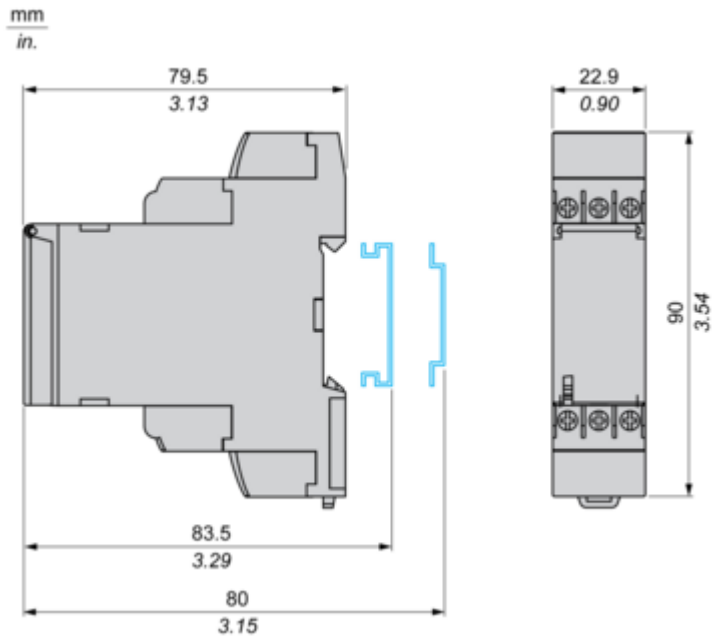


Repack and remanufacture

Take-back	No
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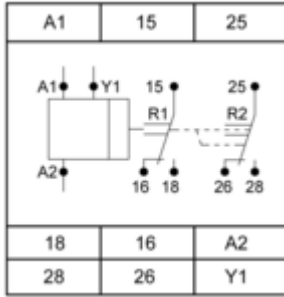
Dimensions Drawings

Dimensions

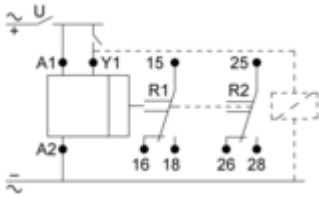


Connections and Schema

Internal Wiring Diagram



Wiring Diagram

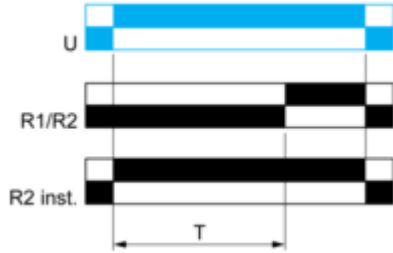


Technical Description

Function A : Power on Delay Relay

Description

The timing period T begins on energization. After timing, the output(s) relay close(s).

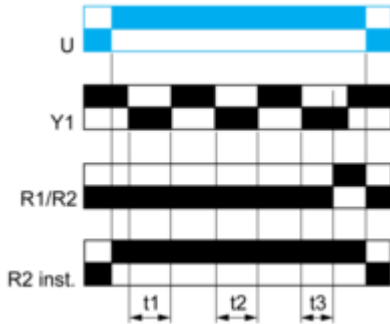


2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

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

Description

After power-up, the first opening of control contact Y1 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.



$T = t1+t2+t3$

Legend

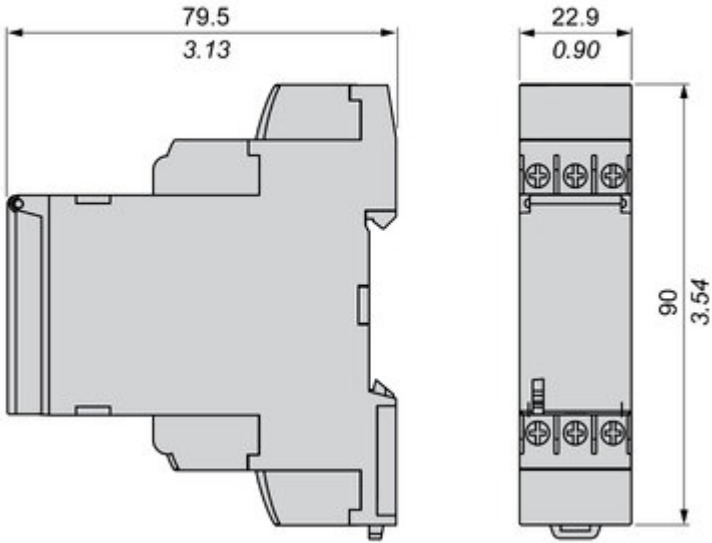
- Relay de-energised
- Relay energised
- Output open
- Output closed

Y1 :	Control contact
R1/R2 :	2 timed outputs
R2 inst. :	The second output is instantaneous if the right position is selected
T :	Timing period
U :	Supply

Technical Illustration

Dimensions

mm
in.



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

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"Diagnostic button" to check downstream circuit immediately, shorten the commission and troubleshooting time
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Compatible with a wide range of applications including machines, buildings, water segments, and HVAC.
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Wide range of time delay for adjustment: from 0.01 s to 999 hrs.
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Compliant with IEC 60255-1 standard, and a wide array of product certifications such as UL, CE, CSA, EAC.
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Unprecedented accuracy, predictive maintenance, and superior security.

