

# Product data sheet

Specifications



dual function relay, Harmony Timer Relays, 8A, 2CO, 0.05s to 300h, power on delay, 24...240V AC DC

RE22R2AMR

**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	1 C/O timed contact, cadmium free 1 C/O timed or instantaneous contact, cadmium free
Time delay type	Power on-delay
Time delay range	0.05...1 s 0.3...3 s 3...30 h 30...300 min 10...100 s 30...300 s 3...30 s 30...300 h 1...10 s 3...30 min
Control type	Rotary knob Diagnostic button Potentiometer external
[Us] rated supply voltage	24...240 V AC/DC 50/60 Hz
Release input voltage	<= 2.4 V
Voltage range	0.85...1.1 Us
Supply frequency	50...60 Hz +/- 5 %
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
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 - Aw- Power on-delay relay w/ retrigger/restart

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

<b>Control signal pulse width</b>	100 ms with load in parallel 30 ms
<b>Insulation resistance</b>	100 MOhm 500 V DC IEC 60664-1
<b>Recovery time</b>	120 ms on de-energisation
<b>Immunity to microbreaks</b>	10 ms
<b>Power consumption in VA</b>	3 VA 240 V AC
<b>Power consumption in W</b>	1.5 W 240 V DC
<b>Switching capacity in VA</b>	2000 VA
<b>Minimum switching current</b>	10 mA 5 V DC
<b>Maximum switching current</b>	8 A
<b>Maximum switching voltage</b>	250 V AC
<b>Electrical durability</b>	100000 cycles, 8 A at 250 V, AC-1 100000 cycles, 2 A at 24 V, DC-1
<b>Mechanical durability</b>	10000000 cycles
<b>Rated impulse withstand voltage</b>	5 kV 1.2...50 µs IEC 60664-1
<b>Power on delay</b>	100 ms
<b>Creepage distance</b>	4 kV/3 IEC 60664-1
<b>Overvoltage category</b>	III conforming to IEC 60664-1
<b>Safety reliability data</b>	B10d = 200000 MTTFd = 216.8 years
<b>Mounting position</b>	Any position
<b>Mounting support</b>	35 mm DIN rail conforming to IEC 60715
<b>Status LED</b>	Green LED backlight steady) dial pointer indication Yellow LED steady) output relay energised Yellow LED fast flashing) timing in progress and output relay de-energised Yellow LED slow flashing) timing in progress and output relay energised
<b>Function available</b>	A- Power on-delay relay-2 C/O Aw- Power on-delay relay w/ retrigger/restart-2 C/O
<b>Width</b>	0.9 in (22.5 mm)
<b>Net Weight</b>	0.231 lb(US) (0.105 kg)
<b>Control Type</b>	With test button
<b>Number of functions</b>	2

## Environment

<b>Dielectric strength</b>	2.5 kV 1 mA/1 minute 50 Hz between relay output and power supply basic insulation IEC 61812-1
<b>Standards</b>	UL 508 IEC 61812-1
<b>Directives</b>	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive
<b>Product Certifications</b>	CE CCC GL UL RCM EAC CSA
<b>Ambient Air Temperature for Operation</b>	-4...140 °F (-20...60 °C)

<b>Ambient Air Temperature for Storage</b>	-40...158 °F (-40...70 °C)
<b>IP degree of protection</b>	IP40 housing: conforming to IEC 60529 IP20 terminals: conforming to IEC 60529 IP50 front panel: conforming to IEC 60529
<b>Pollution degree</b>	3 IEC 60664-1
<b>Vibration resistance</b>	20 m/s² (f= 10...150 Hz) conforming to IEC 60068-2-6
<b>Shock resistance</b>	15 gn not operating 11 ms IEC 60068-2-27 5 gn in operation 11 ms IEC 60068-2-27
<b>Relative humidity</b>	95 % 77...131 °F (25...55 °C)
<b>Electromagnetic compatibility</b>	Fast transients immunity test - test level: 1 kV level 3 (capacitive connecting clip) conforming to IEC 61000-4-4 Surge immunity test - test level: 1 kV level 3 (differential mode) conforming to IEC 61000-4-5 Surge immunity test - test level: 2 kV level 3 (common mode) conforming to IEC 61000-4-5 Electrostatic discharge - test level: 6 kV level 3 (contact discharge) conforming to IEC 61000-4-2 Electrostatic discharge - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2 Radiated radio-frequency electromagnetic field immunity test - test level: 10 V/m level 3 (80 MHz...1 GHz) conforming to IEC 61000-4-3 Conducted RF disturbances - test level: 10 V level 3 (0.15...80 MHz) conforming to IEC 61000-4-6 Fast transient bursts - test level: 2 kV level 3 (direct contact) conforming to IEC 61000-4-4 Immunity to microbreaks and voltage drops - test level: 30 % (500 ms) conforming to IEC 61000-4-11 Immunity to microbreaks and voltage drops - test level: 100 % (20 ms) conforming to IEC 61000-4-11

## Ordering and shipping details

<b>Category</b>	US10CP222376
<b>Discount Schedule</b>	0CP2
<b>GTIN</b>	3606480792472
<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>	1.02 in (2.6 cm)
<b>Package 1 Width</b>	3.23 in (8.2 cm)
<b>Package 1 Length</b>	3.74 in (9.5 cm)
<b>Package 1 Weight</b>	4.02 oz (114.0 g)
<b>Unit Type of Package 2</b>	S02
<b>Number of Units in Package 2</b>	40
<b>Package 2 Height</b>	5.91 in (15.0 cm)
<b>Package 2 Width</b>	11.81 in (30.0 cm)
<b>Package 2 Length</b>	15.75 in (40.0 cm)
<b>Package 2 Weight</b>	11.11 lb(US) (5.04 kg)
<b>Unit Type of Package 3</b>	P06
<b>Number of Units in Package 3</b>	640

<b>Package 3 Height</b>	29.53 in (75.0 cm)
<b>Package 3 Width</b>	23.62 in (60.0 cm)
<b>Package 3 Length</b>	31.50 in (80.0 cm)
<b>Package 3 Weight</b>	160.85 lb(US) (72.96 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.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)

### Environmental footprint

Carbon footprint (kg CO2 eq, Total Life cycle)	54
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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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<a href="#">EU RoHS Directive</a>	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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California proposition 65	<b>WARNING:</b> 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>
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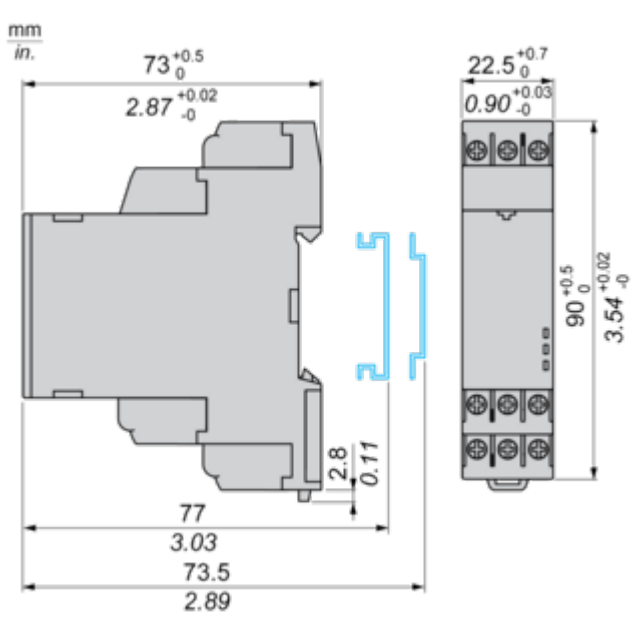
## Use Again

### Repack and remanufacture

Take-back	No
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Dimensions Drawings

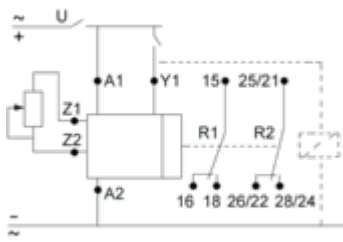
Dimensions



Connections and Schema

Wiring Diagram

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Technical Description

Function A: Power On-Delay

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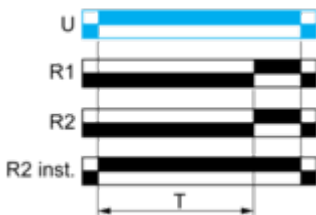
**Description**

On energisation of power supply, the timing period T starts. After timing, the output(s) R close(s). The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST").

**Function: 1 Output**



**Function: 2 Outputs**

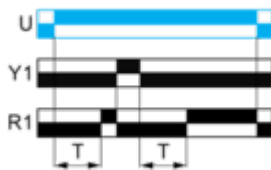


**Function Aw : Power On-Delay With Retrigger / Restart Control**

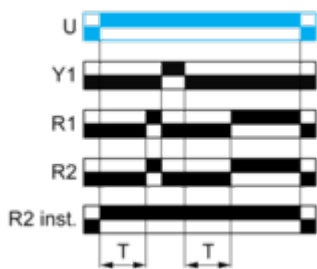
**Description**

On energisation of power supply, the timing period T starts. At the end of the timing period T, the output(s) R close(s). Energization of Y1 makes the output(s) R open(s). Deenergization of Y1 restarts timing period T. At the end of timing period T, the output(s) R close(s). The second output (R2) can be either timed (when set to "TIMED") or instantaneous (when set to "INST")

**Function: 1 Output**



**Function: 2 Outputs**



**Legend**

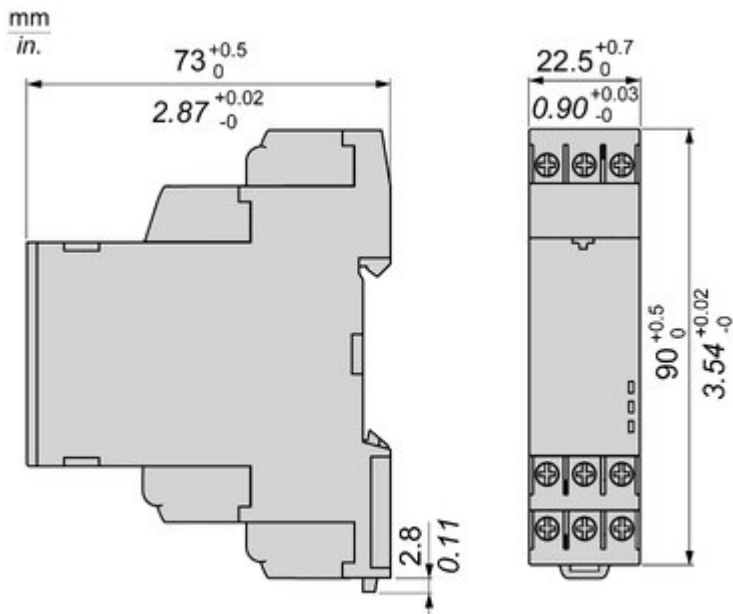
- Relay de-energised
- Relay energised
- Output open
- Output closed

U -	Supply
T -	Timing period
R1/R2 -	2 timed outputs
R2 inst. -	The second output is instantaneous if the right position is selected
Y1 -	Retrigger / Restart control

Technical Illustration

Dimensions

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Offer Marketing Illustration

Product benefits / Features

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## Technical Benefits

### Harmony Timer Relay

choice of screw  
ing connection  
als for wiring.

duct reference  
ing 28 timing  
ns, 2 outputs.  
wide range of  
ply voltage  
10 V AC/DC.

id unintended  
intervention  
ed thanks  
: IP50 lead-  
ble settings  
ction cover.



A Dial-Pointe  
indicator that er  
ease of operation  
environments such  
or low-light con

Different mo  
style to mee  
preferen  
DIN rail mou  
product w  
17.5 mm/U,  
22.5 mm/U  
Plug in mod  
with soc

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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