

# Product data sheet

Specifications



single function relay, Harmony  
Timer Relays, 5A, 1 CO,  
0.05sâ€'10min, delay on de  
energization, 24...240V AC DC

RE22R1KMR

## 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	5 A

## Complementary

Contacts type and composition	1 C/O timed contact, cadmium free
Time delay type	Delay on de-energization
Time delay range	10...100 s 1...10 min 1...10 s 0.3...3 s 3...30 s 0.05...1 s 30...300 s
Control type	Rotary knob
[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	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
Time delay type	Off-delay - K-Delay on de-energization (without auxiliary supply)
Insulation resistance	100 MOhm at 500 V DC conforming to IEC 60664-1
Recovery time	100 ms on de-energisation
Immunity to microbreaks	10 ms
Power consumption in VA	3 VA at 240 V AC

<b>Power consumption in W</b>	2 W at 240 V DC
<b>Switching capacity in VA</b>	1250 VA
<b>Minimum switching current</b>	10 mA at 5 V DC
<b>Maximum switching current</b>	5 A
<b>Maximum switching voltage</b>	250 V AC
<b>Electrical durability</b>	100000 cycles, 2 A at 24 V, DC-1 100000 cycles, 5 A at 250 V, AC-1
<b>Mechanical durability</b>	10000000 cycles
<b>Rated impulse withstand voltage</b>	5 kV for 1.2...50 $\mu$ s conforming to IEC 60664-1
<b>Power on delay</b>	350 ms
<b>Creepage distance</b>	4 kV/3 conforming to IEC 60664-1
<b>Overvoltage category</b>	III conforming to IEC 60664-1
<b>Safety reliability data</b>	MTTFd = 194 years B10d = 180000
<b>Mounting position</b>	Any position
<b>Mounting support</b>	35 mm DIN rail conforming to IEC 60715
<b>Status LED</b>	LED backlight green (steady) for dial pointer indication LED yellow (steady) for output relay energised LED yellow (steady) for power ON
<b>Function available</b>	K-Delay on de-energization (without auxiliary supply)-1 C/O
<b>Width</b>	22.5 mm
<b>Product weight</b>	0.1 kg
<b>Control type</b>	With test button
<b>Number of functions</b>	1

## Environment

<b>Dielectric strength</b>	2.5 kV for 1 mA/1 minute at 50 Hz between relay output and power supply with basic insulation conforming to IEC 61812-1
<b>Standards</b>	IEC 61812-1 UL 508
<b>Directives</b>	2006/95/EC - low voltage directive 2004/108/EC - electromagnetic compatibility
<b>Product certifications</b>	CCC CSA GL RCM CE EAC UL
<b>Ambient air temperature for operation</b>	-20...60 °C
<b>Ambient air temperature for storage</b>	-40...70 °C
<b>IP degree of protection</b>	IP40 housing: conforming to IEC 60529 IP50 front face: conforming to IEC 60529 IP20 terminals: conforming to IEC 60529
<b>Pollution degree</b>	3 conforming to IEC 60664-1
<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 not operating for 11 ms conforming to IEC 60068-2-27 5 gn in operation for 11 ms conforming to IEC 60068-2-27

<b>Relative humidity</b>	95 % at 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

## Packing Units

<b>Unit Type of Package 1</b>	PCE
<b>Number of Units in Package 1</b>	1
<b>Package 1 Height</b>	2.500 cm
<b>Package 1 Width</b>	8.200 cm
<b>Package 1 Length</b>	9.500 cm
<b>Package 1 Weight</b>	92.000 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>	4.130 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

Total lifecycle Carbon footprint

5

## Use Better

### Materials and Substances

Packaging made with recycled cardboard

Yes

Packaging without single use plastic

Yes

[EU RoHS Directive](#)

Pro-active compliance (Product out of EU RoHS legal scope)

SCIP Number

7bdc2711-0ad2-427c-8ece-532c5e9f09d7

REACH Regulation

[REACH Declaration](#)

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 Again

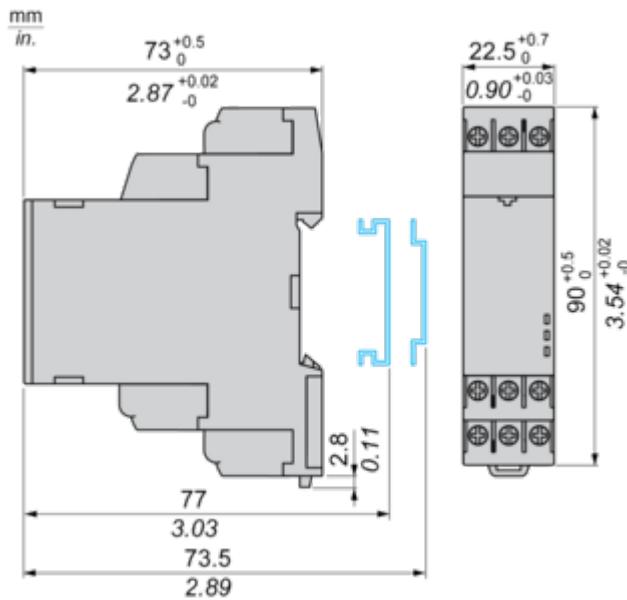
### Repack and remanufacture

Take-back

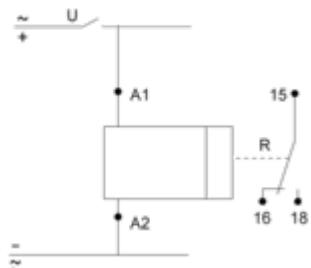
No

## Dimensions Drawings

## Dimensions



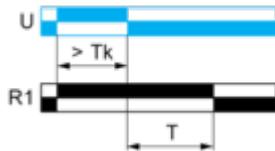
## Connections and Schema

Wiring Diagram

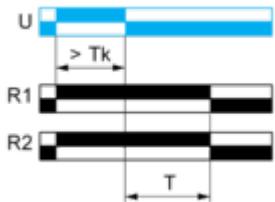
## Technical Description

Function K: Delay On De-energization without Auxillary Supply**Description**

On energisation of power supply, the output(s) R close(s). On de-energisation of power supply, timing period T starts and at the end of this period, the output(s) R revert(s) to its/their initial state. The energization of power supply  $> T_k$  is necessary to sustain the timing period T.

**Function: 1 Output**

$T_k > 1s$

**Function: 2 Outputs**

$T_k > 1s$

**Legend**

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

U -	Supply
T -	Timing period
R1/R2 -	2 timed outputs

## Technical Illustration

## Dimensions

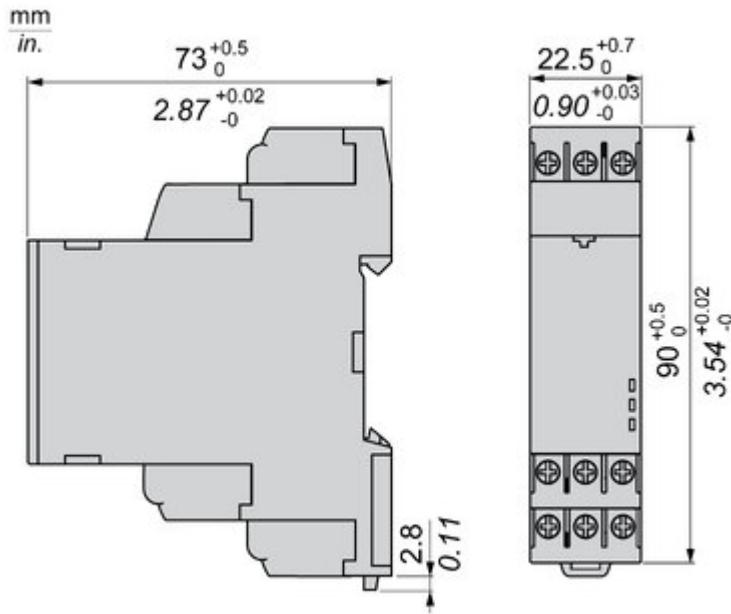


Image of product / Alternate images

Alternative

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