

Product datasheet

Specifications



Off-delay Timing Relay - 0.05s... 10min - 24...240V AC/DC - 1C/O

Local distributor code:
402995962

RE22R1KMR

EAN Code: 3606480792458

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 mm² (20 AWG...12 AWG) solid without cable end Screw terminals, 2 x 0.5...2 x 2.5 mm² (20 AWG...14 AWG) solid without cable end Screw terminals, 1 x 0.2...1 x 2.5 mm² (24 AWG...14 AWG) flexible with cable end Screw terminals, 2 x 0.2...2 x 1.5 mm² (24 AWG...16 AWG) flexible with cable end
Tightening torque	0.6...1 N.m conforming to IEC 60947-1
Housing material	Polycarbonate
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

Disclaimer: This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications

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

Environment

Dielectric strength	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
Standards	IEC 61812-1 UL 508
Directives	2006/95/EC - low voltage directive 2004/108/EC - electromagnetic compatibility
Product certifications	CCC CSA GL RCM CE EAC UL
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-40...70 °C
IP degree of protection	IP40 housing: conforming to IEC 60529 IP50 front face: conforming to IEC 60529 IP20 terminals: conforming to IEC 60529
Pollution degree	3 conforming to IEC 60664-1
Vibration resistance	20 m/s² (f= 10...150 Hz) conforming to IEC 60068-2-6
Shock resistance	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

Relative humidity	95 % at 25...55 °C
Electromagnetic compatibility	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

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	2.500 cm
Package 1 Width	8.200 cm
Package 1 Length	9.500 cm
Package 1 Weight	94.000 g
Unit Type of Package 2	S02
Number of Units in Package 2	40
Package 2 Height	15.000 cm
Package 2 Width	30.000 cm
Package 2 Length	40.000 cm
Package 2 Weight	4.130 kg

Logistical informations

Country of origin	ID
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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	5 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]	3 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.1 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	7bdc2711-0ad2-427c-8ece-532c5e9f09d7
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold

Use Longer



Lifetime extension

Repair	No
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Use Again

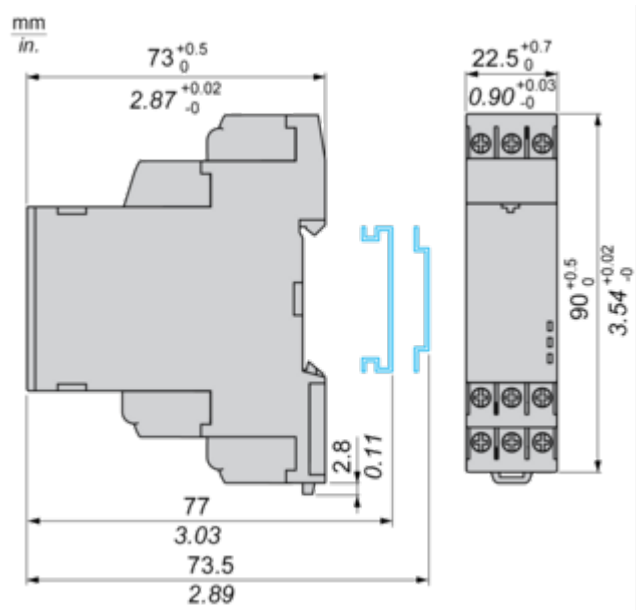


Repack and remanufacture

Recyclability potential, in %	15
End of life manual availability	End of Life Information
Take-back	No

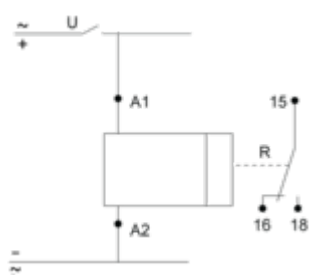
Dimensions Drawings

Dimensions



Connections and Schema

Wiring Diagram



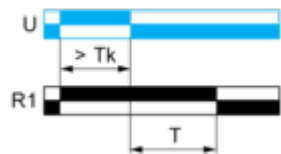
Technical Description

Function K: Delay On De-energization without Auxillary Supply

Description

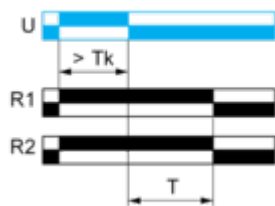
On energisation of power supply, the output(s) R close(s).On de-energisation of power supply, timing period T starts and at the end of this period, the output(s) R revert(s) to its/their initial state.The energization of power supply > Tk is necessary to sustain the timing period T.

Function: 1 Output



Tk > 1s

Function: 2 Outputs



Tk > 1s

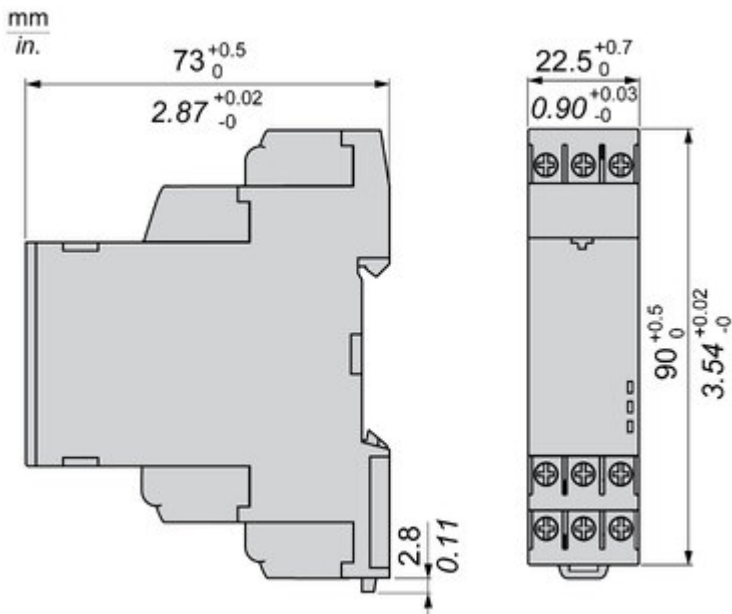
Legend

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

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

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

