Product datasheet
Characteristics

RE22R1MKMR
Muti-function Off-delay Timing Relay - 0.05s…300s - 24…240V AC/DC - 1C/O

Main

Range of product	Zelio Time
Product or component type	Modular timing relay
Discrete output type	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	He K
Time delay range	0.05...0.5 s 0.1...1 s 0.3...3 s 1...10 s 10...100 s 3...30 s 30...300 s
Control type	Rotary knob
[Us] rated supply voltage	24...240 V AC/DC at 50/60 Hz
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, AWG 20...AWG 12 solid cable without cable end Screw terminals : 2 x 0.5...2 x 2.5 mm², AWG 20...AWG 14 solid cable without cable end Screw terminals : 1 x 0.2...1 x 2.5 mm², AWG 24...AWG 14 flexible cable with cable end Screw terminals : 2 x 0.2...2 x 1.5 mm², AWG 24...AWG 16 flexible cable 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
Insulation resistance	100 MOhm at 500 V DC conforming to IEC 60664-1
Reset time	50 ms (on de-energisation)
Immunity to microbreaks	<= 10 ms
Power consumption in VA	3 VA at 240 V AC
Power consumption in W	2 W at 240 V DC
Switching capacity in VA	1250 VA
Minimum switching current	10 mA 5 V DC
Maximum switching current	5 A
Maximum switching voltage	250 V AC
Electrical durability	100000 cycles for 2 A at 24 V DC-1

	100000 cycles for 5 A at 250 V AC-1
Mechanical durability	10000000 cycles
[Uimp] rated impulse withstand voltage	5 kV for 1.2...50 µs conforming to IEC 60664-1
Delay response	< 100 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 EN/IEC 60715
Status LED	Green LED backlight (steady) for dial pointer indication Yellow LED (steady) for output relay energised Yellow LED (steady) for power ON
Width	22.5 mm
Product weight	0.1 kg

Environment

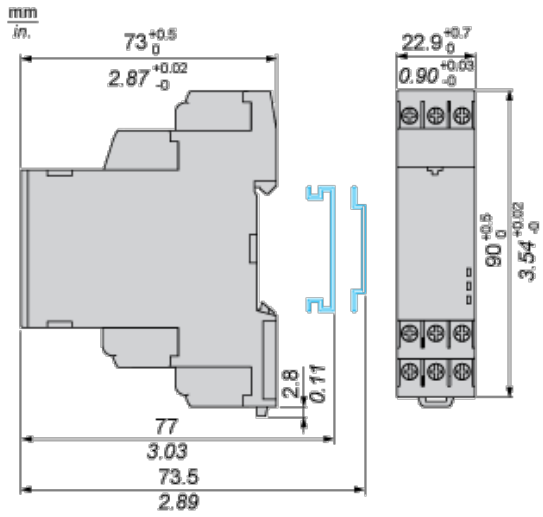
dielectric strength	2.5 kV for 1 mA/1 minute at 50 Hz between relay output and power supply with basic insulation conforming to IEC 61812-1
standards	IEC 61812-1 UL 508
directives	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive
product certifications	CCC CE CSA GL UL RCM EAC China RoHS
ambient air temperature for operation	-20...60 °C
ambient air temperature for storage	-40...70 °C
IP degree of protection	IP20 (terminals) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP50 (front face) 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) (duration = 11 ms) conforming to IEC 60068-2-27 5 gn (in operation) (duration = 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

Offer Sustainability

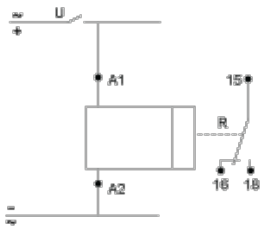
Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1650 - Schneider Electric declaration of conformity

REACh	Reference not containing SVHC above the threshold
Product environmental profile	Available
Product end of life instructions	Available

Dimensions



Wiring Diagram

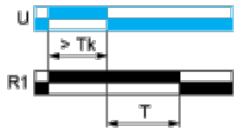


Function K: Delay On De-energization without Auxillary Supply

Description

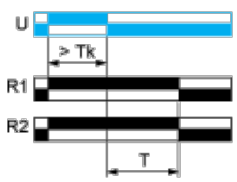
On energisation of power supply, the output(s) R close(s).On de-energisation of power supply, timing period T starts and at the end of this period, the output(s) R revert(s) to its/their initial state.The energization of power supply > Tk is necessary to sustain the timing period T.

Function: 1 Output



Tk > 1s

Function: 2 Outputs



Tk > 80ms

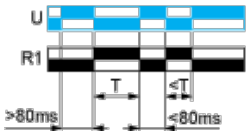
Function He: Pulse-on De-energization

Description

After energisation of power supply > 80ms followed by deenergization of power supply, the output(s) R closes() for the duration of a

timing period T then revert(s) to its/their initial state.Energisation of power supply < 80ms followed by deenergization of power supply,the output(s) R close(s) and WILL NOT ABLE TO sustain for the duration of a timing period T before revert(s) to its/their initial state.

Function: 1 Output



Legend

Relay de-energised

Relay energised

Output open

Output closed

U - Supply

T - Timing period

R1/R22 timed outputs

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