Product datasheet

Specification





Multifunction Timer Relay - 12..240 V AC/DC - 2 C/O

Local distributor code:

403002032 RE22R2MMW

EAN Code: 3606480676574

Main

Range Of Product	Harmony Timer Relays
Product Or Component Type	Multifunction relay
Discrete Output Type	Relay
Device Short Name	RE22
Nominal Output Current	8 A

Complementary

Complementary	
Contacts Type And Composition	1 C/O timed contact 1 C/O timed or instantaneous contact
Time Delay Type	Power on-delay On-delay and off-delay Interval Off-delay Symmetrical flashing
Time Delay Range	0.11 s 660 s 110 h 110 min 110 s 10100 h 660 min
Control Type	Rotary knob front panel
[Us] Rated Supply Voltage	12240 V AC/DC
Voltage Range	0.851.1 Us
Supply Frequency	5060 Hz +/- 5 %
Connections - Terminals	Screw terminals, 2 x 1.5 mm² with cable end Screw terminals, 2 x 2.5 mm² without cable end
Tightening Torque	0.61 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
Control Signal Pulse Width	30 ms 100 ms under load
Insulation Resistance	100 MOhm at 500 V DC conforming to IEC 60664-1
Recovery Time	120 ms on de-energisation
Immunity To Microbreaks	10 ms

3 VA at 240 V AC
1.5 W at 240 V DC
2000 VA
10 mA at 5 V
8 A
250 V
100000 cycles for resistive load, 8 A at 250 V, AC
10000000 cycles
5 kV for 1.250 μs conforming to IEC 60664-1 5 kV conforming to IEC 61812-1
100 ms
B10d = 230000 MTTFd = 251.1 years
Any position in relation to normal vertical mounting plane
35 mm DIN rail conforming to IEC 60715
LED green (flashing) for timing in progress LED green (steady) for power ON
LED yellow for relay energised
22.5 mm

Environment

Dielectric Strength	2.5 kV for 1 mA/1 minute at 50 Hz conforming to IEC 61812-1
Standards	IEC 61812-1 IEC 61000-6-2 IEC 61000-6-1 IEC 61000-6-4 IEC 61000-6-3
Directives	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive
Product Certifications	CSA CE cULus GL RCM CCC EAC
Ambient Air Temperature For Operation	-2060 °C
Ambient Air Temperature For Storage	-3060 °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/s² (f= 10150 Hz) conforming to IEC 60068-2-6
Shock Resistance	15 gn for 11 ms conforming to IEC 60068-2-27
Relative Humidity	93 %, without condensation conforming to IEC 60068-2-30

Electromagnetic Compatibility

Electrostatic discharge immunity test - test level: 6 kV level 3 (contact discharge)

conforming to IEC 61000-4-2

Electrostatic discharge immunity test - test level: 8 kV level 3 (air discharge) conforming to IEC 61000-4-2

Fast transients immunity test - test level: 1 kV level 3 (capacitive connecting clip) conforming to IEC 61000-4-4

Fast transients immunity test - test level: 2 kV level 3 (direct contact) 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

Radiated radio-frequency electromagnetic field immunity test - test level: 10 V level 3 (0.15...80 MHz) conforming to IEC 61000-4-6

Electromagnetic field immunity test - test level: 10 V/m level 3 (80 MHz...1 GHz) conforming to IEC 61000-4-3

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

Conducted and radiated emissions class B conforming to EN 55022

Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1
Package 1 Height	2.500 cm
Package 1 Width	8.300 cm
Package 1 Length	9.600 cm
Package 1 Weight	107.000 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	4.800 kg

Contractual warranty

Warranty 18 months

Sustainability Green Premium

Green PremiumTM **label** is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance



Mercury Free



Rohs Exemption Information

Yes

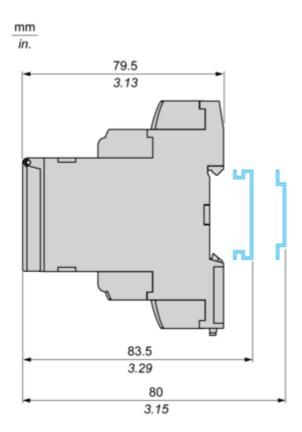
Certifications & Standards

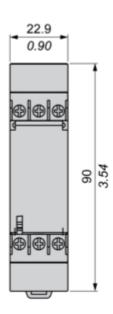
Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End of Life Information

17 May 2024

Dimensions Drawings

Dimensions



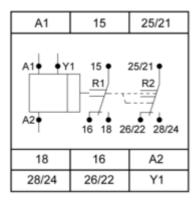


Product datasheet

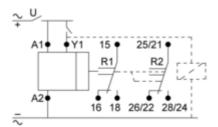
RE22R2MMW

Connections and Schema

Internal Wiring Diagram



Wiring Diagram



Product datasheet

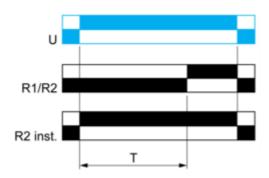
RE22R2MMW

Technical Description

Function A : Power on Delay Relay

Description

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



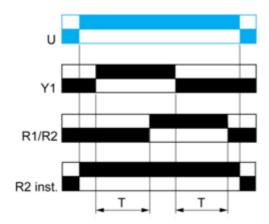
Function Ac: On- and Off-Delay Relay with Control Signal

Description

After power-up, closing of the control contact Y1 causes the timing period T to start (timing can be interrupted by operating the Gate control contact G). At the end of this timing period, the relay closes.

When control contact Y1 re-opens, the timing T starts.At the end of this timing period T

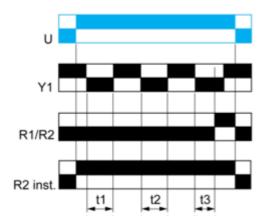
At the end of this timing period T, the output reverts to its initial position (timing can be interrupted by operating the Gate control contact G).



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.

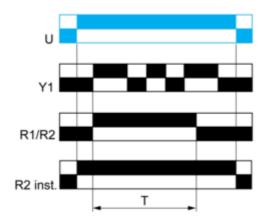


T = t1+t2+t3

Function B : Interval Relay with Control Signal

Description

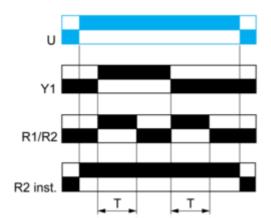
After power-up, pulsing or maintaining control contact Y1 starts the timing T. The output relay closes for the duration of the timing period T then reverts to its initial state.



Function Bw : Double Interval Relay with Control Signal

Description

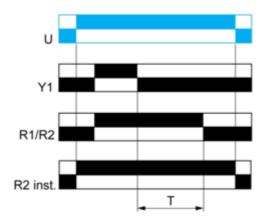
On closing and opening of control contact Y1, the output relay closes for the duration of the timing period T.



Function C : Off-Delay Relay with Control Signal

Description

After power-up and closing of the control contact Y1, the output relay closes. When control contact Y1 re-opens, timing T starts. At the end of the timing period, the output(s) relay revert(s) to its/their initial state.

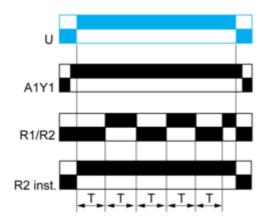


Function D : Symmetrical Flasher Relay (Starting Pulse Off)

Description

14

Repetitive cycle with two timing periods T of equal duration, with output(s) relay changing state at the end of each timing period T.

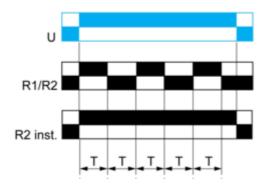


Before power-up Y1 should be permanently connected to A1. 2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function D : Symmetrical Flasher Relay (Starting Pulse On)

Description

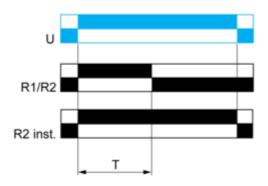
Repetitive cycle with two timing periods T of equal duration, with output(s) relay changing state at the end of each timing period T.



Function H : Interval Relay

Description

On energization of the relay, timing period T starts and the output(s) relay close(s). At the end of the timing period T, the output(s) relay revert(s) to its/their initial state



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

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

Function Ht: Interval Relay & With Pause / Summation Control

Description

On energisation of power supply, output(s) R close(s) and timing period T starts.

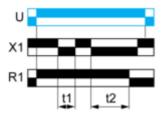
The timing can be interrupted / paused each time X1 energizes.

When the cumulative total of time periods elapsed reaches the pre-set value T, the output(s) R revert(s) to its/their initial state Reenergization of X1 will also cause output(s) R close(s) if the time has elapsed and restart the same operation as described at the beginning.

Except for RE17*, RE22R2MMW, RENF22R2MMW, RE22R2MMU and RE22R2MJU, timing can be interrupted / paused each time Y1 energizes.

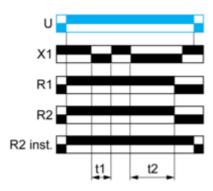
The second output (R2) can be either timed (when set to "TIMED" or instantaneous (when set to "INST").

Function: 1 Output



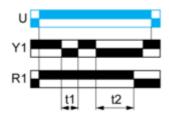
T = t1 + t2 +...

Function: 2 Outputs



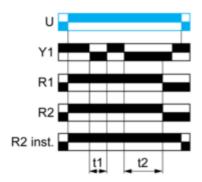
T = t1 + t2 +...

Function: 1 Output with Retrigger / Restart Control



T = t1 + t2 +...

Function: 2 Outputs with Retrigger / Restart Control



T = t1 + t2 +...