



Main

Range of product	Zelio Time
Product or component type	Modular timing relay
Discrete output type	Relay
Device short name	RE22
Nominal output current	8 A

Complementary

Contacts type and composition	1 C/O timed contact
Width	22.5 mm
Width pitch dimension	22.5 mm
Time delay type	Q
Time delay range	0.1...1 s 1...10 h 1...10 min 1...10 s 10...100 h 6...60 min 6...60 s
Control type	Rotary knob on front panel
[Us] rated supply voltage	230...240 V AC 380...440 V AC
Voltage range	0.85...1.1 Us
Supply frequency	50...60 Hz (+/- 5 %)
Connections - terminals	Screw terminals : 2 x 2.5 mm ² without cable end Screw terminals : 2 x 1.5 mm ² 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
Control signal pulse width	30 ms 100 ms (under load)
Insulation resistance	100 MOhm at 500 V DC conforming to IEC 60664-1
Reset time	120 ms (on de-energisation)
Immunity to microbreaks	> 10 ms
Power consumption in VA	15 VA at 380...440 V 8 VA at 230...240 V
Breaking capacity	2000 VA
Minimum switching current	10 mA 5 V
Maximum switching current	8 mA
Maximum switching voltage	250 V
Electrical durability	100000 cycles for 8 A at 250 V AC for resistive load

Mechanical durability	10000000 cycles
[Uimp] rated impulse withstand voltage	5 kV conforming to IEC 61812-1 5 kV for 1.2...50 µs conforming to IEC 60664-1
Power on delay	< 100 ms
Mounting position	Any position in relation to normal vertical mounting plane
Mounting support	35 mm DIN rail conforming to EN/IEC 60715
Local signalling	Yellow LED for relay energised Green LED (steady) for power ON Green LED (flashing) for timing in progress
Product weight	93.5 kg

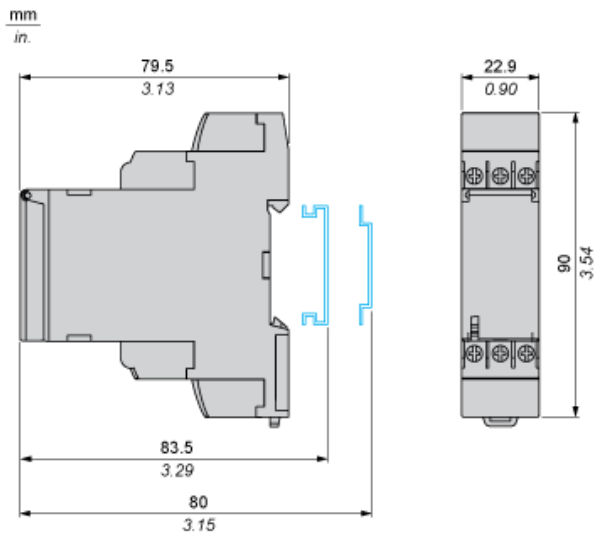
Environment

Dielectric strength	2.5 kV for 1 mA/1 minute at 50 Hz conforming to IEC 61812-1
Standards	EN 61000-6-1 EN 61000-6-2 EN 61000-6-3 EN 61000-6-4 IEC 61812-1
Directives	2004/108/EC - electromagnetic compatibility 2006/95/EC - low voltage directive
Product certifications	CCC CE CSA CULus GL RCM EAC China ROHS
Ambient air temperature for operation	-20...60 °C
Ambient air temperature for storage	-30...60 °C
IP degree of protection	IP50 (front face) conforming to IEC 60529 IP40 (housing) conforming to IEC 60529 IP20 (terminal block) conforming to IEC 60529
Vibration resistance	20 m/s ² (f = 10...150 Hz) conforming to IEC 60068-2-6
Shock resistance	15 gn (duration = 11 ms) conforming to IEC 60068-2-27
Relative humidity	93 % without condensation conforming to IEC 60068-2-30
Electromagnetic compatibility	Radiated radio-frequency electromagnetic field immunity test (test level: 10 V, level 3 - 0.15...80 MHz) conforming to IEC 61000-4-6 Surge immunity test (test level: 2 kV, level 3 - common mode) conforming to IEC 61000-4-5 Surge immunity test (test level: 1 kV, level 3 - differential mode) conforming to IEC 61000-4-5 Fast transients immunity test (test level: 2 kV, level 3 - direct contact) conforming to IEC 61000-4-4 Fast transients immunity test (test level: 1 kV, level 3 - capacitive connecting clip) conforming to IEC 61000-4-4 Electromagnetic field immunity test (test level: 10 V/m, level 3 - 80 MHz to 1 GHz) conforming to IEC 61000-4-3 Electrostatic discharge immunity test (test level: 8 kV, level 3 - air discharge) conforming to EN/IEC 61000-4-2 Electrostatic discharge immunity test (test level: 6 kV, level 3 - contact discharge) conforming to EN/IEC 61000-4-2
Immunity to voltage dips	100 % / 20 ms conforming to IEC 61000-4-11 30 % / 500 ms conforming to IEC 61000-4-11
Disturbance radiated/conducted	Class B conforming to EN 55022

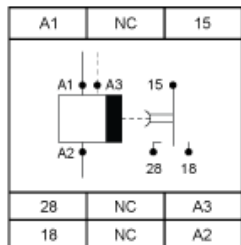
Offer Sustainability

Sustainable offer status	Green Premium product
RoHS (date code: YYWW)	Compliant - since 1416 - Schneider Electric declaration of conformity
REACH	Reference not containing SVHC above the threshold
Product environmental profile	Available Download Product Environmental
Product end of life instructions	Available Download End Of Life Manual

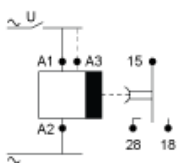
Dimensions



Internal Wiring Diagram



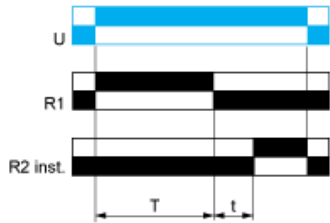
Wiring Diagram



Star-delta Timing Relay

Description

After power-up, the star contact closes instantly and timing T starts, At the end of timing period, the star contact opens.
After a t ms pause, the delta contact closes and remains in this position.



t : 20, 40, 60, 80, 100, 120, 140 ms

Legend

Relay de-energised

Relay energised

Output open

Output closed

R1 : Star contact output

R2 : Delta contact output

T : Timing period

t : Delay to switch ON Delta contact output

U : Supply