

# Product datasheet

Specifications



## on-delay timing relay - 0.3..30 s - 240 V AC DC - solid state

RE9TA31MW

 **Discontinued on:** 1 Jun 2016

**EAN Code:** 3389110331042

 **Discontinued**

### Main

Range Of Product	Zelio Time
Product Or Component Type	Industrial timing relay
Discrete Output Type	Solid state
Component Name	RE9
Time Delay Type	A
Time Delay Range	0.3...30 s

### Complementary

Width Pitch Dimension	22.5 mm
[Us] Rated Supply Voltage	24...240 V AC/DC 50/60 Hz
Voltage Range	0.85...1.1 Us
Connections - Terminals	Screw terminals, 2 x 1.5 mm <sup>2</sup> flexible with cable end Screw terminals, 2 x 2.5 mm <sup>2</sup> flexible without cable end
Tightening Torque	0.6...1.1 N.m
Setting Accuracy Of Time Delay	< +/- 20 %
Repeat Accuracy	< 1 %
Reset Time	100 ms after time delay period
Temperature Drift	< 0.1 %/°C
Maximum [Ie] Rated Operational Current	0.7 A at 20 °C
Minimum Output Current	10 mA at 20 °C
Overload Current	<= 15 A during 10 ms conforming to VDE 0435 (part 303), 4.8.3/class II
Maximum Voltage Drop	<3 V at closed state0.7 A
Maximum Leakage Current	6 mA open contact contact(s)
Maximum Power Dissipation In W	2.5 W
Electrical Durability	100000000 cycles
Marking	CE
Overvoltage Category	III conforming to IEC 60664-1
[Ui] Rated Insulation Voltage	250 V conforming to IEC 300 V conforming to CSA
Supply Disconnection Value	> 0.1 Uc
Operating Position	Any position without derating

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

Surge Withstand	2 kV conforming to IEC 61000-4-5 level 3
Cad Overall Width	22.5 mm
Cad Overall Height	78 mm
Cad Overall Depth	80 mm
Net Weight	0.11 kg

## Environment

Immunity To Microbreaks	100 ms during time delay period 2 ms after time delay period
Derating Factor	None >20 °C
Standards	EN/IEC 61812-1
Product Certifications	CSA GL UL
Ambient Air Temperature For Storage	-40...85 °C
Ambient Air Temperature For Operation	-20...60 °C
Relative Humidity	15...85 % 3K3 conforming to IEC 60721-3-3
Vibration Resistance	0.35 mm (f= 10...55 Hz) conforming to IEC 60068-2-6
Shock Resistance	15 gn for 11 ms conforming to IEC 60068-2-27
Ip Degree Of Protection	IP20 (terminals) IP50 (housing)
Pollution Degree	3 conforming to IEC 60664-1
Dielectric Strength	2.5 kV
Non-Dissipating Shock Wave	4.8 kV
Resistance To Electrostatic Discharge	6 kV (in contact) conforming to IEC 61000-4-2 level 3 8 kV (in air) conforming to IEC 61000-4-2 level 3
Resistance To Electromagnetic Fields	10 V/m conforming to IEC 61000-4-3 level 3
Resistance To Fast Transients	2 kV conforming to IEC 61000-4-4 level 3
Disturbance Radiated/Conducted	CISPR 22 - class A CISPR 11 group 1 - class A

## Packing Units

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

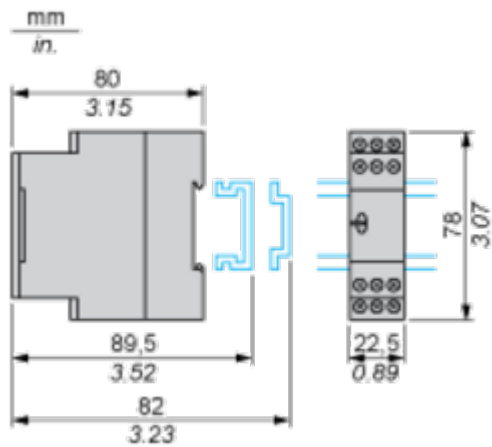
## Contractual warranty

Warranty	18 months
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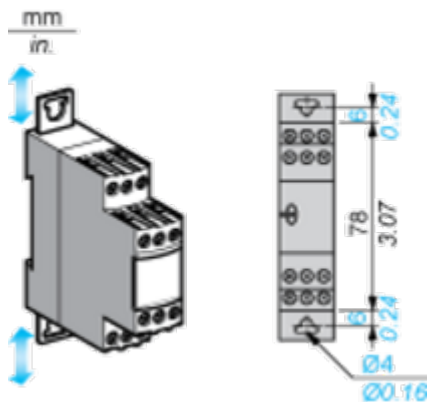
Dimensions Drawings

Width 22.5 mm

Rail Mounting



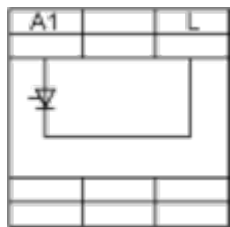
Screw Fixing



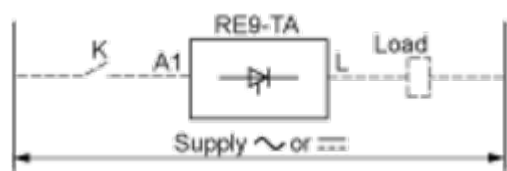
Connections and Schema

Internal Wiring Diagram

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Recommended Application Wiring Diagram



The timing relay is placed in series, with the load whose energisation is to be delayed on one side and switch K on the other side. The mains supply may be a.c. or d.c. and the voltage may be between 24 V and 240 V.

Technical Description

Function A : Power on Delay Relay

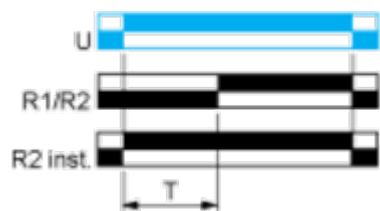
Description

The timing period T begins on energisation. After timing, the output(s) R close(s). The second output can be either timed or instantaneous.

Function: 1 Output







Function: 2 Outputs



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

Legend

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

C	Control contact
G	Gate
R	Relay or solid state output
R1/R2	2 timed outputs
R2 inst.	The second output is instantaneous if the right position is selected
T	Timing period
Ta -	Adjustable On-delay
Tr -	Adjustable Off-delay
U	Supply