Product data sheet Characteristics

RE7RB11MW

off-delay timing relay - 0.05..1 s - 240 V AC DC - 10C

Main

Commercial Status	Commercialised
Range of product	Zelio Time
Product or component type	Industrial timing relay
Component name	RE7
Time delay type	К
Time delay range	0.05 s10 min
[Us] rated supply voltage	24240 V AC/DC 50/60 Hz

Complementary

Relay Silver with gold flashed contacts 22.5 mm 0.851.1 Us Screw terminals, clamping capacity: 2 x 2.5 mm² flexible without cable end Screw terminals, clamping capacity: 2 x 1.5 mm² flexible with cable end 0.61.1 N.m +/- 10 % of full scale +/- 0.2 % < 0.07 %/°C
22.5 mm 0.851.1 Us Screw terminals, clamping capacity: 2 x 2.5 mm² flexible without cable end Screw terminals, clamping capacity: 2 x 1.5 mm² flexible with cable end 0.61.1 N.m +/- 10 % of full scale +/- 0.2 %
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+/- 10 % of full scale +/- 0.2 %
+/- 0.2 %
< 0.07 %/°C
3 0.01 707 0
< 0.2 %/V
1 s
50 ms
250 V AC/DC
20000000 cycles
5 A
<= 0.2 A DC-13 115 V at 70 °C conforming to IEC 60947-5-1/1991/VDE 0660 <= 0.1 A DC-13 250 V at 70 °C conforming to IEC 60947-5-1/1991/VDE 0660 <= 3 A AC-15 at 70 °C conforming to IEC 60947-5-1/1991/VDE 0660 <= 2 A DC-13 24 V at 70 °C conforming to IEC 60947-5-1/1991/VDE 0660
12 V/10 mA
Linear 47 kOhm (+/- 20 %), 0.2 W, cable length: <= 25 m Z1Z2terminal(s)
CE
III conforming to IEC 60664-1
300 V between contact circuit and power supply CSA certified 300 V between contact circuit and control inputs CSA certified 250 V between contact circuit and power supply IEC certified 250 V between contact circuit and control inputs IEC certified
> 0.1 Uc
Any position without derating
2 kV conforming to IEC 61000-4-5 level 3
3.2 VA 110 V 2.5 VA 48 V 6 VA 240 V 2 VA 24 V
3.2 W 110 V 2 W 240 V 2 W 24 V 1 W 48 V

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not inherent or and is not to be used for determining suitability or inhability of these products for specific user applications. It is the dourn aren in integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Peak current	0.001 kA for 30 s on energisation	
Terminal description	(15-16-18)OC_OFF (A1-A2)CO	
Height	78 mm	
Width	22.5 mm	
Depth	80 mm	
Product weight	0.15 kg	

Environment

Immunity to microbreaks	3 ms	
Standards	EN/IEC 61812-1	
Product certifications	CSA GL UL	
Ambient air temperature for storage	-4085 °C	
Ambient air temperature for operation	-2060 °C	
Relative humidity	1585 % (3K3) conforming to IEC 60721-3-3	
Vibration resistance	0.35 mm (f = 1055 Hz) conforming to IEC 60068-2-6	
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27	
IP degree of protection	IP50 (housing) IP20 (terminals)	
Pollution degree	3 conforming to IEC 60664-1	
Dielectric strength	2.5 kV	
Non-dissipating shock wave	4.8 kV	
Resistance to electrostatic discharge	8 kV (in air) conforming to IEC 61000-4-2 level 3 6 kV (in contact) 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 11 group 1 - class A CISPR 22 - class A	

Contractual warranty

Period	18 months



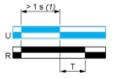
RE7RB11MW

Function K: Delay on De-Energisation (Without Auxiliary Supply)

Description

On energisation, the output(s) R close(s). On de-energisation, timing period T starts and, at the end of this period, the output(s) R revert(s) to its/their initial state.

Function: 1 Output



If the Device has been stored, de-energised, for more than a month, it must be energised for about 15 seconds in order to activate it. Subsequently, it only takes 1 second to start the time delay.

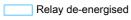


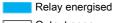
UNEXPECTED EQUIPMENT OPERATION

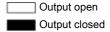
If the time is not complied with, the relay remains energised indefinitely.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Legend







- C Control contact
- G Gate
- R Relay or solid state output

R1/ 2 timed outputs

R2

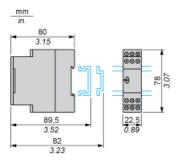
R2 The second output is instantaneous if the right position is selected inst.

- T Timing period
- Ta Adjustable On-delay
- Tr Adjustable Off-delay
- U Supply

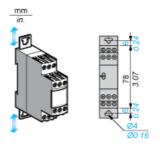
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Width 22.5 mm

Rail Mounting



Screw Fixing



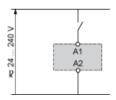
Product data sheet Connections and Schema

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Internal Wiring Diagram



Recommended Application Wiring Diagram

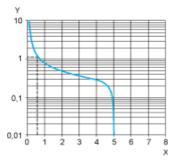


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Performance Curves

A.C. Load Curve 1

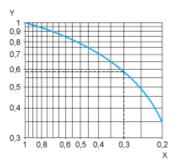
Electrical durability of contacts on resistive loading millions of operating cycles



- Χ Current broken in A
- Millions of operating cycles

A.C. Load Curve 2

Reduction factor k for inductive loads (applies to values taken from durability curve 1).

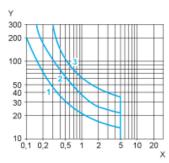


- Х Power factor on breaking (cos φ)
- Reduction factor k

Example: An LC1-F185 contactor supplied with 115 V/50 Hz for a consumption of 55 VA or a current consumption equal to 0.1 A and cos φ = 0.3. For 0.1 A, curve 1 indicates a durability of approximately 1.5 million operating cycles. As the load is inductive, it is necessary to apply a reduction coefficient k to this number of cycles as indicated by curve 2. For $\cos \phi = 0.3$: k = 0.6 The electrical durability therefore becomes: $1.5 ext{ } 10^6$ operating cycles x $0.6 = 900 ext{ } 000$ operating cycles.



D. C. Load Limit Curve



- X Y Current in A
- Voltage in V
- L/R = 20 ms1
- L/R with load protection diode
- Resistive load