## Product data sheet Characteristics

## RE7RB11MW

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



### Main

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

### Complementary

Discrete output type	Palay	
	Relay	
Contacts material	Silver with gold flashed contacts	
Width pitch dimension	0.89 in (22.5 mm)	
[Us] rated supply voltage	24240 V AC/DC 50/60 Hz	
Voltage range	0.851.1 Us	
Connections - terminals	Screw terminals, 2 x 1.5 mm² flexible with cable end Screw terminals, 2 x 2.5 mm² flexible without cable end	
Tightening torque	5.319.74 lbf.in (0.61.1 N.m)	
Setting accuracy of time delay	+/- 10 % of full scale	
Repeat accuracy	+/- 0.2 %	
Temperature Drift	< 0.07 %/°C	
Voltage drift	< 0.2 %/V	
Minimum pulse duration	1 s	
Reset time	50 ms	
Maximum switching voltage	250 V AC/DC	
Mechanical durability	20000000 cycles	
[lth] conventional free air thermal current	5 A	
Maximum [le] rated operational current	2 A DC-13 24 V 158 °F (70 °C) IEC 60947-5-1/1991/VDE 0660 0.1 A DC-13 250 V 158 °F (70 °C) IEC 60947-5-1/1991/VDE 0660 0.2 A DC-13 115 V 158 °F (70 °C) IEC 60947-5-1/1991/VDE 0660 3 A AC-15 158 °F (70 °C) IEC 60947-5-1/1991/VDE 0660	
Minimum switching capacity	10 mA 12 V	
Potentiometer characteristic	Linear 47 kOhm +/- 20 %), 0.2 W 82.02 ft (25 m) Z1Z2	
Marking	CE	
Overvoltage category	III IEC 60664-1	
[Ui] rated insulation voltage	250 V between contact circuit and control inputs IEC 250 V between contact circuit and power supply IEC 300 V between contact circuit and control inputs CSA 300 V between contact circuit and power supply CSA	
Supply disconnection value	> 0.1 Uc	
Operating position	Any position without derating	
Surge withstand	2 kV IEC 61000-4-5 level 3	
Power consumption in VA	2 VA 24 V 6 VA 240 V 2.5 VA 48 V 3.2 VA 110 V	

Maximum power consumption in W	1 W 48 V
·	2 W 24 V
	2 W 240 V
	3.2 W 110 V
Peak current	0.001 kA 30 s on energisation
Terminal description	(A1-A2)CO
	(15-16-18)OC_OFF
Height	3.07 in (78 mm)
Width	0.89 in (22.5 mm)
Depth	3.15 in (80 mm)
Net Weight	0.33 lb(US) (0.15 kg)

### Environment

Immunity to microbreaks	3 ms	
Standards	EN/IEC 61812-1	
Product certifications	GL CSA UL	
Ambient Air Temperature for Storage	-40185 °F (-4085 °C)	
Ambient Air Temperature for Operation	-4140 °F (-2060 °C)	
Relative humidity	1585 % 3K3 IEC 60721-3-3	
Vibration resistance	0.35 mm 1055 Hz)IEC 60068-2-6	
Shock resistance	15 gn 11 ms IEC 60068-2-27	
IP degree of protection	IP20 terminals) IP50 housing)	
Pollution degree	3 IEC 60664-1	
Dielectric strength	2.5 kV	
Non-dissipating shock wave	4.8 kV	
Resistance to electrostatic discharge	6 KV in contact IEC 61000-4-2 level 3 8 kV in air IEC 61000-4-2 level 3	
Resistance to electromagnetic fields	9.14 V/m (10 V/m) IEC 61000-4-3 level 3	
Resistance to fast transients	2 kV IEC 61000-4-4 level 3	
Disturbance radiated/conducted	CISPR 22 - class A CISPR 11 group 1 - class A	

## Ordering and shipping details

Category	22376-RELAYS-MEASUREMENT(RM4)
Discount Schedule	CP2
GTIN	00785901515302
Package weight(Lbs)	0.24 lb(US) (0.110 kg)
Returnability	No
Country of origin	ID

## Packing Units

Package 1 Height	0.270 dm	
Package 1 width	0.820 dm	
Package 1 Length	0.850 dm	

## Contractual warranty

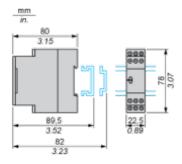
y	
Warranty	18 months

# Product data sheet Dimensions Drawings

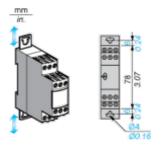
## RE7RB11MW

### Width 22.5 mm

## Rail Mounting



## Screw Fixing



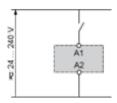
## Product data sheet Connections and Schema

## RE7RB11MW

## Internal Wiring Diagram



## Recommended Application Wiring Diagram



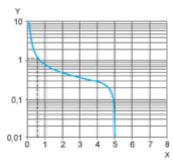
# Product data sheet Performance Curves

## RE7RB11MW

### **Performance Curves**

### A.C. Load Curve 1

Electrical durability of contacts on resistive loading millions of operating cycles

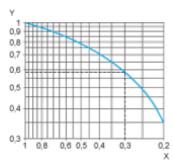


X Current broken in A

Y Millions of operating cycles

#### A.C. Load Curve 2

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



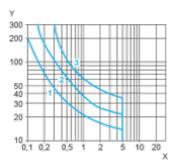
X Power factor on breaking (cos  $\phi$ )

Y 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  $\phi$  = 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 10<sup>6</sup> operating cycles x 0.6 = 900 000 operating cycles.



### D. C. Load Limit Curve



X Current in A

Y Voltage in V

1 L/R = 20 ms

2 L/R with load protection diode

3 Resistive load

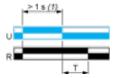
## RE7RB11MW

### 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



1 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.

## **MARNING**

#### 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

Relay de-energised

Relay energised

Output open

Output closed

С	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
Т	Timing period
Та -	Adjustable On-delay
Tr -	Adjustable Off-delay
U	Supply

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