Specifications



#### ① Discontinued

# industrial timing relay - 20..1800s type A - 24 V AC/DC, 110..240 V AC - 1 C/O

RE8TA41BUTQ

() Discontinued on: 20 Oct 2022

## Main

Range of product	Zelio Time
Product or component type	Optimum industrial timing relay
Component name	RE8
Time delay type	Α
Time delay range	201800 s
Sale per indivisible quantity	10

## Complementary

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Discrete output type	Relay
Contacts material	90/10 silver nickel contacts
Width pitch dimension	22.5 mm
[Us] rated supply voltage	110240 V AC 50/60 Hz 24 V AC/DC 50/60 Hz
Voltage range	0.91.1 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	0.61.1 N.m
Setting accuracy of time delay	+/- 20 % of full scale
Repeat accuracy	< 1 %
Voltage drift	< 2.5 %/V
Temperature drift	< 0.2 %/°C
Minimum pulse duration	26 ms
Reset time	50 ms
Maximum switching voltage	250 V
Mechanical durability	2000000 cycles
[Ith] conventional free air thermal current	8 A
Maximum [le] rated operational current	2 A DC-13 24 V at 70 °C conforming to IEC 60947-5-1/1991 2 A DC-13 24 V at 70 °C conforming to VDE 0660 3 A AC-15 24 V at 70 °C conforming to IEC 60947-5-1/1991 3 A AC-15 24 V at 70 °C conforming to VDE 0660 0.1 A DC-13 250 V at 70 °C conforming to IEC 60947-5-1/1991 0.1 A DC-13 250 V at 70 °C conforming to VDE 0660 0.2 A DC-13 115 V at 70 °C conforming to IEC 60947-5-1/1991 0.2 A DC-13 115 V at 70 °C conforming to VDE 0660

Minimum switching capacity	at 12 V 10 mA
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
Surge withstand	2 kV conforming to IEC 61000-4-5 level 3
Power consumption in VA	0.7 VA at 24 V 1.8 VA at 110 V 8.5 VA at 240 V
Maximum power consumption in W	0.5 W at 24 V
Terminal description	(15-16-18)OC_OFF (A1-B1)CO ALT
Height	78 mm
Width	22.5 mm
Depth	80 mm
Net weight	0.11 kg

## Environment

Immunity to microbreaks	3 ms
Standards	EN/IEC 61812-1
Product certifications	UL GL
	CSA
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
IP degree of protection	IP20 (terminals) IP50 (casing)
Pollution degree	3 conforming to IEC 60664-1
Dielectric test voltage	2.5 KV
Non-dissipating shock wave	4.8 kV
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**

Warranty

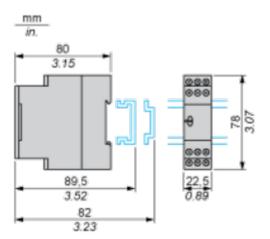
18 months

## Product datasheet

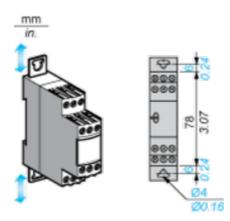
**Dimensions Drawings** 

### Width 22.5 mm

### **Rail Mounting**

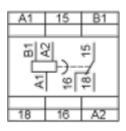


### **Screw Fixing**



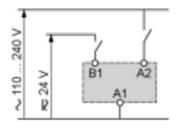
Connections and Schema

## Internal Wiring Diagram



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## Recommended Application Wiring Diagram

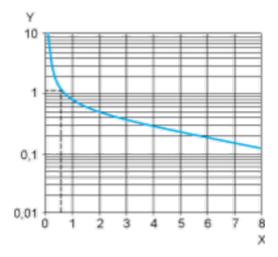


## Performance Curves

#### Performance Curves

### A.C. Load Curve 1

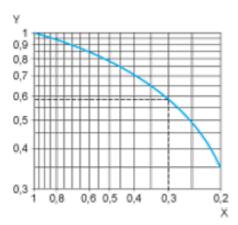
Electrical durability of contacts on resistive loading millions of operating cycles



X Current broken in AY Millions of operating cycles

#### A.C. Load Curve 2

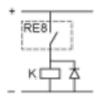
Reduction factor k for inductive loads (applies to values taken from durability curve 1).



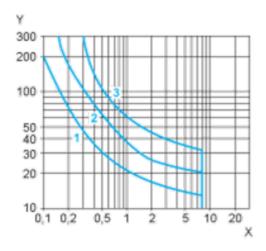
 $\boldsymbol{X}$  Power factor on breaking (cos  $\boldsymbol{\varphi})$ 

#### 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  $10^6$  operating cycles x 0.6 = 900 000 operating cycles.



D. C. Load Limit Curve



X Current in A

 $\boldsymbol{Y}$  Voltage in V

1 L/R = 20 ms

2 L/R with load protection diode

3 Resistive load

## **Product datasheet**

## **Technical Description**

## Function A : Power on Delay Relay

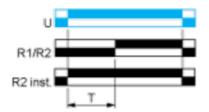
#### Description

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.)

Product datasheet

### 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	
Ta -	Adjustable On-delay	
Tr -	Adjustable Off-delay	
U	Supply	