RE8TA21BU

industrial timing relay - 3..300s - type A - 24 V AC/DC, 110..240 V AC- 1 C/O

Product availability: Non-Stock - Not normally stocked in distribution facility



Main	
Commercial Status	End of commercialisation
Range of product	Zelio Time
Product or component type	Optimum industrial timing relay
Component name	RE8
Time delay type	A
Time delay range	3300 s
Sale per indivisible quantity	1

Complementary

Discrete output type	Relay			
Contacts material	Silver nickel contacts			
Width pitch dimension	0.89 in (22.5 mm)			
[Us] rated supply voltage	24 V AC/DC at 50/60 Hz 110240 V ACat 50/60 Hz			
Voltage range	0.91.1 Us			
Connections - terminals	Screw terminals 2 x 2.5 mm², flexible cable without cable end Screw terminals 2 x 1.5 mm², flexible cable with cable end			
Tightening torque	5.319.73 lbf.in (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	20000000 cycles			
[Ith] conventional free air thermal current	8 A			
[le] rated operational current	<= 0.2 Aat 115 V, DC-13for 158 °F (70 °C) conforming to VDE 0660 <= 0.2 Aat 115 V, DC-13for 158 °F (70 °C) conforming to IEC 60947-5-1/1991 <= 0.1 Aat 250 V, DC-13for 158 °F (70 °C) conforming to VDE 0660 <= 0.1 Aat 250 V, DC-13for 158 °F (70 °C) conforming to IEC 60947-5-1/1991 <= 3 Aat 24 V, AC-15for 158 °F (70 °C) conforming to VDE 0660 <= 3 Aat 24 V, AC-15for 158 °F (70 °C) conforming to IEC 60947-5-1/1991 <= 2 Aat 24 V, DC-13for 158 °F (70 °C) conforming to VDE 0660 <= 2 Aat 24 V, DC-13for 158 °F (70 °C) conforming to IEC 60947-5-1/1991			
Minimum switching capacity	10 mAat 12 V			
Marking	CE			
Overvoltage category	III conforming to IEC 60664-1			
[Ui] rated insulation voltage	300 V conforming to CSA 250 V conforming to IEC			
Supply disconnection value	> 0.1 Uc			
Operating position	Any position without derating factor			
Surge withstand	2 kV conforming to IEC 61000-4-5 level 3			

Power consumption in VA	8.5 VAat 240 V
	1.8 VAat 110 V
	0.7 VAat 24 V
Power consumption in W	0.5 Wat 24 V
Terminal description	(15-16-18)OC_OFF (A1-B1)CO ALT
Height	3.07 in (78 mm)
Width	0.89 in (22.5 mm)
Depth	3.15 in (80 mm)
Product weight	0.24 lb(US) (0.11 kg)

Environment

Immunity to microbreaks	3 ms	
Standards	EN/IEC 61812-1	
Product certifications	CSA GL UL	
Ambient air temperature for storage	-40185 °F (-4085 °C)	
Ambient air temperature for operation	-4140 °F (-2060 °C)	
Relative humidity	1585 % 3K3 conforming to IEC 60721-3-3	
Vibration resistance	0.35 mm 1055 Hz conforming to IEC 60068-2-6	
IP degree of protection	IP50 (casing) IP20 (terminals)	
Pollution degree	3 conforming to IEC 60664-1	
Dielectric test voltage	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	9.14 V/yd (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	

Ordering and shipping details

Category	22376 - RELAYS-MEASUREMENT(RM4)	
Discount Schedule	CP2	
GTIN	00785901515319	
Nbr. of units in pkg.	1	
Product availability	Non-Stock - Not normally stocked in distribution facility	
Returnability	N	
Country of origin	ID	

Contractual warranty

10/	40 11	
Warranty period	18 months	
	To memory	

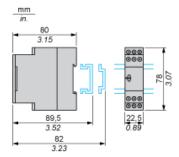


Product data sheet Dimensions Drawings

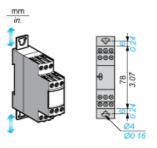
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Width 22.5 mm

Rail Mounting



Screw Fixing



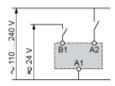
Product data sheet Connections and Schema

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Internal Wiring Diagram



Recommended Application Wiring Diagram



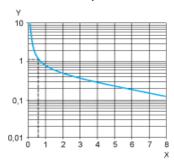
Product data sheet Performance Curves

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Performance Curves

A.C. Load Curve 1

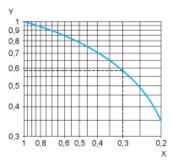
Electrical durability of contacts on resistive loading millions of operating cycles



- 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).

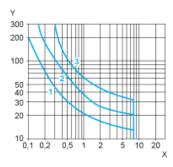


- X Power factor on breaking (cos ϕ)
- Y Reduction factor k

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 $\cos \varphi = 0.3$. 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 $\cos \varphi = 0.3$: 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



- Current in A Voltage in V L/R = 20 ms L/R with load protection diode Resistive load 1

Product data sheet Technical Description

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Function A: Power on Delay Relay

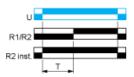
Description

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