

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

RE8TA21BU

Discontinued on: Jul 17, 2022

(!) Discontinued

Main

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	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 mm² flexible with cable end Screw terminals, 2 x 2.5 mm² 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	20000000 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

Price is "List Price" and may be subject to a trade discount - check with your local distributor or retailer for actual price.

at 12 V 10 mA
CE
III conforming to IEC 60664-1
250 V conforming to IEC 300 V conforming to CSA
> 0.1 Uc
Any position without derating
2 kV conforming to IEC 61000-4-5 level 3
0.7 VA at 24 V 1.8 VA at 110 V 8.5 VA at 240 V
0.5 W at 24 V
ALT (A1-B1)CO (15-16-18)OC_OFF
78 mm
22.5 mm
80 mm
0.11 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
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

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1

Contractual warranty

Warranty

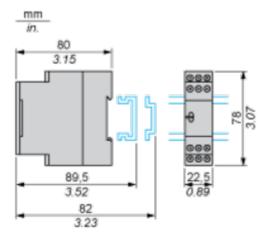
Oct 23, 2024

18 months

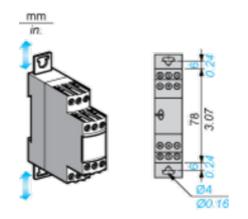
Dimensions Drawings

Width 22.5 mm

Rail Mounting



Screw Fixing

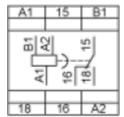


Product datasheet

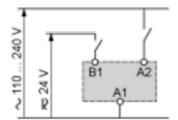
RE8TA21BU

Connections and Schema

Internal Wiring Diagram



Recommended Application Wiring Diagram

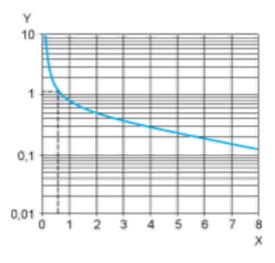


Performance Curves

Performance Curves

A.C. Load Curve 1

Electrical durability of contacts on resistive loading millions of operating cycles

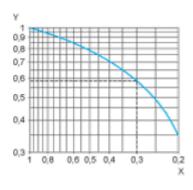


X Current broken in A

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 $\cos \phi = 0.3$. 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.

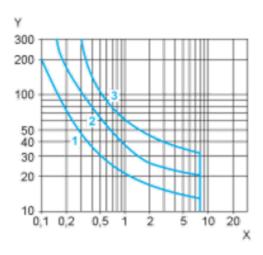
For $\cos \phi = 0.3$: k = 0.6 The electrical durability therefore becomes:1.5 10^6 operating cycles x 0.6 = 900 000 operating cycles.



D. C. Load Limit Curve

Product datasheet

RE8TA21BU



- X Current in A
- Y Voltage in V
- **1** L/R = 20 ms
- 2 L/R with load protection diode
- 3 Resistive load

Product datasheet

RE8TA21BU

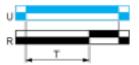
Technical Description

Function A : Power on Delay Relay

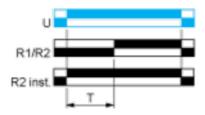
Description

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.)

RE8TA21BU

Legend

