

RE8CL11BUTQ

industrial timing relay - 0.1..10 s - type D - 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	D
Time delay range	0.1...10 s
Sale per indivisible quantity	10

Complementary

Discrete output type	Relay
Contacts material	90/10 silver nickel contacts
Width pitch dimension	0.89 in (22.5 mm)
[Us] rated supply voltage	24 V AC/DC at 50/60 Hz 110...240 V AC at 50/60 Hz
Voltage range	0.9...1.1 Us
Connections - terminals	Screw terminals 2 x 2.5 mm ² , flexible cable without cable end Screw terminals 2 x 1.5 mm ² , flexible cable with cable end
Tightening torque	5.31...9.73 lbf.in (0.6...1.1 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
[Ie] rated operational current	<= 0.2 A at 115 V, DC-13 for 158 °F (70 °C) conforming to VDE 0660 <= 0.2 A at 115 V, DC-13 for 158 °F (70 °C) conforming to IEC 60947-5-1/1991 <= 0.1 A at 250 V, DC-13 for 158 °F (70 °C) conforming to VDE 0660 <= 0.1 A at 250 V, DC-13 for 158 °F (70 °C) conforming to IEC 60947-5-1/1991 <= 3 A at 24 V, AC-15 for 158 °F (70 °C) conforming to VDE 0660 <= 3 A at 24 V, AC-15 for 158 °F (70 °C) conforming to IEC 60947-5-1/1991 <= 2 A at 24 V, DC-13 for 158 °F (70 °C) conforming to VDE 0660 <= 2 A at 24 V, DC-13 for 158 °F (70 °C) conforming to IEC 60947-5-1/1991
Minimum switching capacity	10 mA at 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	-40...185 °F (-40...85 °C)
Ambient air temperature for operation	-4...140 °F (-20...60 °C)
Relative humidity	15...85 % 3K3 conforming to IEC 60721-3-3
Vibration resistance	0.35 mm 10...55 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

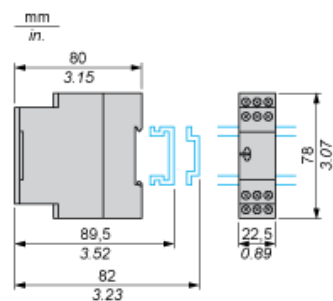
Category	22376 - RELAYS-MEASUREMENT(RM4)
Discount Schedule	CP2
GTIN	00785901223672
Nbr. of units in pkg.	10
Product availability	Non-Stock - Not normally stocked in distribution facility
Returnability	N
Country of origin	ID

Contractual warranty

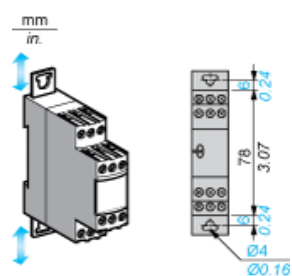
Warranty period	18 months
-----------------	-----------

Width 22.5 mm

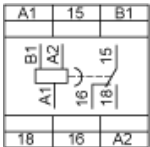
Rail Mounting



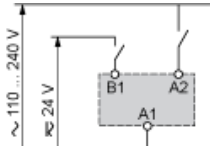
Screw Fixing



Internal Wiring Diagram



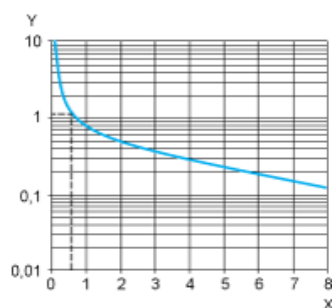
Recommended Application Wiring Diagram



Performance Curves

A.C. Load Curve 1

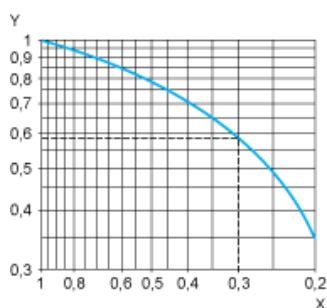
Electrical durability of contacts on resistive loading millions of operating cycles



X Current broken in A
Y Millions of operating cycles

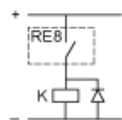
A.C. Load Curve 2

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

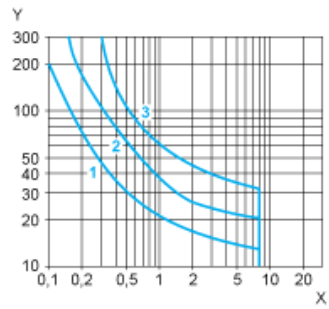


X Power factor on breaking ($\cos \phi$)
Y Reduction factor k

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: 1.5×10^6 operating cycles $\times 0.6 = 900\,000$ 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

Function D : Symmetrical Flasher Relay (Starting Pulse Off)

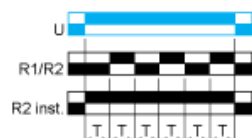
Description

Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T.
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

C Control contact

G Gate

R Relay or solid state output

R1/ 2 timed outputs

R2

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

T Timing period

Ta Adjustable On-delay

-

Tr Adjustable Off-delay

-

U Supply