

symmetrical flashing relay - 0.05..1 s - 24 V AC DC - 10C

RE7CL11BU

! Discontinued on: 20 Oct 2022

① Discontinued

Main

Range of product	Zelio Time
Product or component type	Industrial timing relay
Component name	RE7
Time delay type	D
Time delay range	0.05 s300 h

Complementary

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	0.851.1 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	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	20 ms
Reset time	50 ms
Maximum switching voltage	250 V AC/DC
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/VDE 0660 0.1 A DC-13 250 V at 70 °C conforming to IEC 60947-5-1/1991/VDE 0660 0.2 A DC-13 115 V at 70 °C conforming to IEC 60947-5-1/1991/VDE 0660 3 A AC-15 at 70 °C conforming to IEC 60947-5-1/1991/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 between contact circuit and control inputs IEC certified
	250 V between contact circuit and power supply IEC certified
	300 V between contact circuit and control inputs CSA certified
	300 V between contact circuit and power supply CSA certified
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
	1.6 VA at 48 V
	1.8 VA at 110 V
	8.5 VA at 240 V
Maximum power consumption in W	0.5 W at 24 V
	1.2 W at 48 V
Terminal description	ALT
	(B1-A2)CO
	(15-16-18)OC_ON
Height	78 mm
Width	22.5 mm
Depth	80 mm
Net weight	0.15 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
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27
IP degree of protection	IP20 (terminals) IP50 (housing)
Pollution degree	3 conforming to IEC 60664-1
Dielectric strength	2.5 kV
Non-dissipating shock wave	4.8 kV
Resistance to electrostatic discharge	6 kV in contact conforming to IEC 61000-4-2 level 3 8 kV in air conforming to IEC 61000-4-2 level 3
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 22 - class A CISPR 11 group 1 - class A

Packing Units

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

Contractual warranty

Warranty

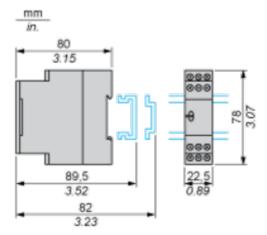
23 Oct 2024

18 months

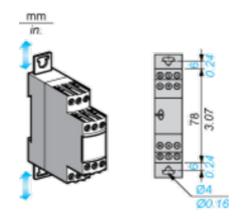
Dimensions Drawings

Width 22.5 mm

Rail Mounting



Screw Fixing

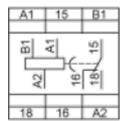


Product datasheet

RE7CL11BU

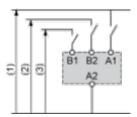
Connections and Schema

Internal Wiring Diagram



Recommended Application Wiring Diagram

Start on Energisation



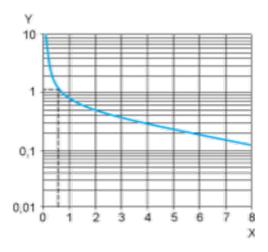
- **1** Supply **2** 12...48 V
- **3** 24 V

Performance Curves

Performance Curves

A.C. Load Curve 1

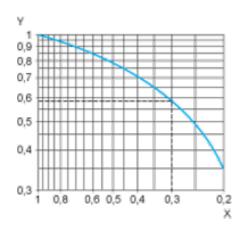
Electrical durability of contacts on resistive loading millions of operating cycles



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).



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

Y Reduction factor k

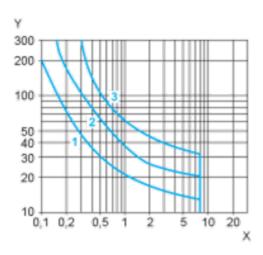
Example: An LC1-F185 contactor supplied with 115 V/50 Hz for a consumption of 55 VA or a current consumption equal to 0.1 A and $\cos \phi = 0.3$. For 0.1 A, curve 1 indicates a durability of approximately 1.5 million operating cycles. As the load is inductive, it is necessary to apply a reduction coefficient 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

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

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Technical Description

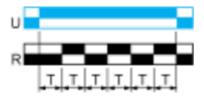
Function D: Symmetrical Flasher Relay (Starting Pulse Off)

Description

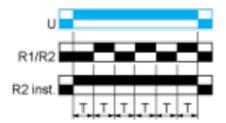
Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T.

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.)

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Legend

