

adjustable symmetrical flashing relay - 0.05..1 s - 24 V AC DC - 20C

RE7CP13BU

! Discontinued on: 1 Jun 2016

EAN Code: 3389110311754

① Discontinued

Main

Range Of Product	Zelio Time
Product Or Component Type	Industrial timing relay
Contacts Type And Composition	2 C/O
Component Name	RE7
Time Delay Type	D
Time Delay Range	0.05 s300 h

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 4248 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
Potentiometer Characteristic	Linear 47 kOhm (+/- 20 %), 0.2 W, cable length <25 m Z1Z2 terminal(s)

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	2 VA at 48 V 1.2 VA at 24 V 12.5 VA at 240 V 2.8 VA at 110 V
Maximum Power Consumption In W	0.8 W at 24 V 1.6 W at 48 V
Terminal Description	ALT (B1-A2)CO (Z2)UNUSED (25-26-28)OC_ON (Z1)UNUSED (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

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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	6 kV in contact conforming to IEC 61000-4-2 level 3
Discharge	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 11 group 1 - class A
	CISPR 22 - class A

Packing Units

26 Apr 2024

Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

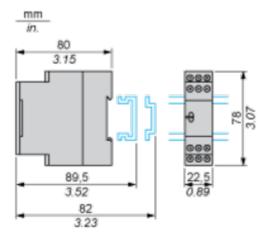
Contractual warranty

Warranty 18 months

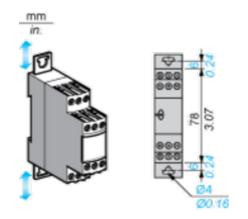
Dimensions Drawings

Width 22.5 mm

Rail Mounting



Screw Fixing

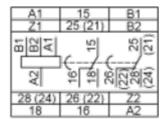


Product datasheet

RE7CP13BU

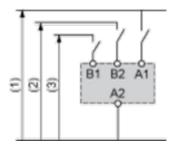
Connections and Schema

Internal Wiring Diagram



Recommended Application Wiring Diagram

Start on Energisation



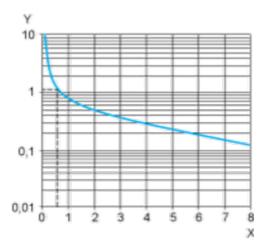
- 1 Supply
- **2** 12...48 V
- **3** 24 V

Performance Curves

Performance Curves

A.C. Load Curve 1

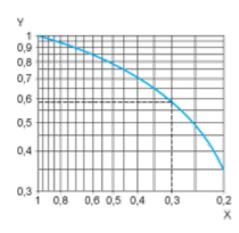
Electrical durability of contacts on resistive loading millions of operating cycles



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 $\boldsymbol{\varphi}$)

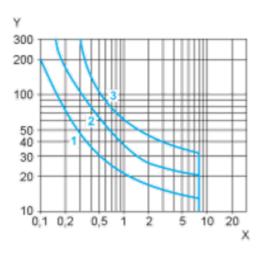
Y Reduction factor k

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



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

RE7CP13BU

Technical Description

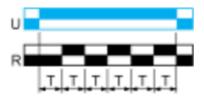
Function D: Symmetrical Flasher Relay (Starting Pulse Off)

Description

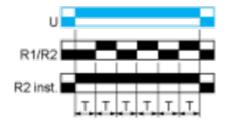
Repetitive cycle with two timing periods T of equal duration, with output(s) R changing state at the end of each timing period T.

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.)

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
Та -	Adjustable On-delay
Tr -	Adjustable Off-delay
U	Supply