RE7PE11BU

pulse on energisation relay at switch on - 0.05..1 s - 24 V AC DC - 1OC



Main

Range of product	Zelio Time
Product or component type	Industrial timing relay
Component name	RE7
Time delay type	Н
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	24 V AC/DC at 50/60 Hz 110240 V AC at 50/60 Hz
Voltage range	0.851.1 Us
Connections - terminals	Screw terminals, clamping capacity: 2 x 2.5 mm² flexible without cable end Screw terminals, clamping capacity: 2 x 1.5 mm² flexible with 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
[le] rated operational current	<= 3 A AC-15 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 <= 0.1 A DC-13 250 V at 70 °C conforming to IEC 60947-5-1/1991/VDE 0660 <= 2 A DC-13 24 V at 70 °C conforming to IEC 60947-5-1/1991/VDE 0660
Minimum switching capacity	12 V / 10 mA
Marking	CE
Overvoltage category	III conforming to IEC 60664-1
[Ui] rated insulation voltage	300 V between contact circuit and power supply CSA certified 300 V between contact circuit and control inputs CSA certified 250 V between contact circuit and power supply IEC certified 250 V between contact circuit and control inputs IEC 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	8.5 VA 240 V 1.8 VA 110 V 1.6 VA 48 V 0.7 VA 24 V
Power consumption in W	1.2 W 48 V 0.5 W 24 V

Terminal description	(15-16-18)OC_ON (B1-A2)CO ALT	
Height	78 mm	
Width	22.5 mm	
Depth	80 mm	
Product weight	0.15 kg	

Environment

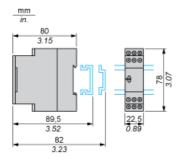
Immunity to microbreaks	3 ms	
Standards	EN/IEC 61812-1	
Product certifications	CSA	
	GL	
	UL	
Ambient air temperature for storage	-4085 °C	
Ambient air temperature for operation	-2060 °C	
Relative humidity	1585 % (3K3) conforming to IEC 60721-3-3	
Vibration resistance	0.35 mm (f = 1055 Hz) conforming to IEC 60068-2-6	
Shock resistance	15 gn for 11 ms conforming to IEC 60068-2-27	-
IP degree of protection	IP50 (housing)	
3	IP20 (terminals)	
Pollution degree	3 conforming to IEC 60664-1	
Dielectric strength	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	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	



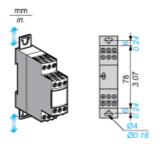
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Width 22.5 mm

Rail Mounting



Screw Fixing



Product data sheet Connections and Schema

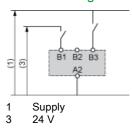
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Internal Wiring Diagram



Recommended Application Wiring Diagram

Start On Energisation



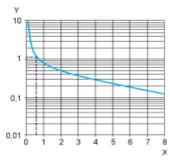
Product data sheet Performance Curves

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Performance Curves

A.C. Load Curve 1

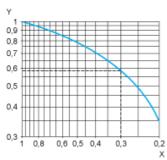
Electrical durability of contacts on resistive loading millions of operating cycles



- 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).

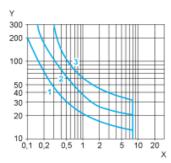


- X Power factor on breaking ($\cos \phi$)
- Y Reduction factor k

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 ϕ = 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 ϕ = 0.3: k = 0.6 The electrical durability therefore becomes:1.5 10⁶ 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

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Function H: Interval Relay

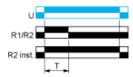
Description

On energisation of the relay, timing period T starts and the output(s) R close(s). At the end of the timing period T, the output(s) R revert(s) to its/their initial state. 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
Ta -	Adjustable On-delay
Tr -	Adjustable Off-delay
U	Supply