

# Product data sheet

Specifications



pulse on energisation relay at switch on - 0.05..1 s - 24 V AC DC - 10C

RE7PE11BU

⚠ Discontinued on: Jun 1, 2016

⚠ Discontinued

## Main

Range Of Product	Zelio Time
Product Or Component Type	Industrial timing relay
Component Name	RE7
Time Delay Type	H
Time Delay Range	0.05 s...300 h

## 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	110...240 V AC 50/60 Hz 24 V AC/DC 50/60 Hz
Voltage Range	0.85...1.1 Us
Connections - Terminals	Screw terminals, 2 x 1.5 mm <sup>2</sup> flexible with cable end Screw terminals, 2 x 2.5 mm <sup>2</sup> flexible without cable end
Tightening Torque	5.31...9.74 lbf.in (0.6...1.1 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 [Ie] Rated Operational Current	2 A DC-13 24 V 158 °F (70 °C) IEC 60947-5-1/1991/VDE 0660 0.1 A DC-13 250 V 158 °F (70 °C) IEC 60947-5-1/1991/VDE 0660 0.2 A DC-13 115 V 158 °F (70 °C) IEC 60947-5-1/1991/VDE 0660 3 A AC-15 158 °F (70 °C) IEC 60947-5-1/1991/VDE 0660
Minimum Switching Capacity	10 mA 12 V
Marking	CE
Overvoltage Category	III IEC 60664-1

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

<b>[Ui] Rated Insulation Voltage</b>	250 V between contact circuit and control inputs IEC 250 V between contact circuit and power supply IEC 300 V between contact circuit and control inputs CSA 300 V between contact circuit and power supply CSA
<b>Supply Disconnection Value</b>	> 0.1 Uc
<b>Operating Position</b>	Any position without derating
<b>Surge Withstand</b>	2 kV IEC 61000-4-5 level 3
<b>Power Consumption In Va</b>	0.7 VA 24 V 1.6 VA 48 V 1.8 VA 110 V 8.5 VA 240 V
<b>Maximum Power Consumption In W</b>	0.5 W 24 V 1.2 W 48 V
<b>Terminal Description</b>	(15-16-18)OC_ON (B1-A2)CO ALT
<b>Height</b>	3.07 in (78 mm)
<b>Width</b>	0.89 in (22.5 mm)
<b>Depth</b>	3.15 in (80 mm)
<b>Net Weight</b>	0.33 lb(US) (0.15 kg)

## Environment

<b>Immunity To Microbreaks</b>	3 ms
<b>Standards</b>	EN/IEC 61812-1
<b>Product Certifications</b>	GL UL CSA
<b>Ambient Air Temperature For Storage</b>	-40...185 °F (-40...85 °C)
<b>Ambient Air Temperature For Operation</b>	-4...140 °F (-20...60 °C)
<b>Relative Humidity</b>	15...85 % 3K3 IEC 60721-3-3
<b>Vibration Resistance</b>	0.35 mm 10...55 Hz)IEC 60068-2-6
<b>Shock Resistance</b>	15 gn 11 ms IEC 60068-2-27
<b>Ip Degree Of Protection</b>	IP20 terminals) IP50 housing)
<b>Pollution Degree</b>	3 IEC 60664-1
<b>Dielectric Strength</b>	2.5 kV
<b>Non-Dissipating Shock Wave</b>	4.8 kV
<b>Resistance To Electrostatic Discharge</b>	6 kV in contact IEC 61000-4-2 level 3 8 kV in air IEC 61000-4-2 level 3
<b>Resistance To Electromagnetic Fields</b>	9.14 V/m (10 V/m) IEC 61000-4-3 level 3
<b>Resistance To Fast Transients</b>	2 kV IEC 61000-4-4 level 3
<b>Disturbance Radiated/Conducted</b>	CISPR 11 group 1 - class A CISPR 22 - class A

## Ordering and shipping details

<b>Category</b>	22376-RELAYS-MEASUREMENT(RM4)
<b>Discount Schedule</b>	CP2
<b>Gtin</b>	00785901481454

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Returnability	No
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Country Of Origin	ID
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## Packing Units

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Unit Type Of Package 1	PCE
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Number Of Units In Package 1	1
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## Contractual warranty

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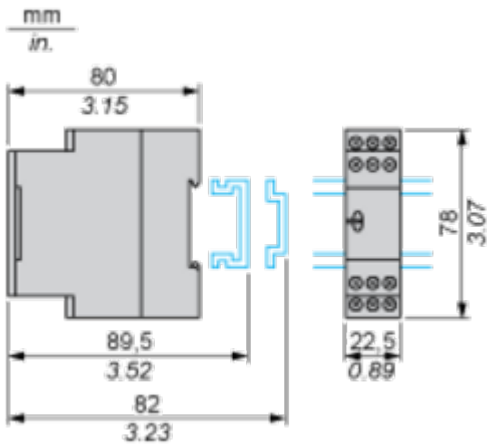
Warranty	18 months
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Dimensions Drawings

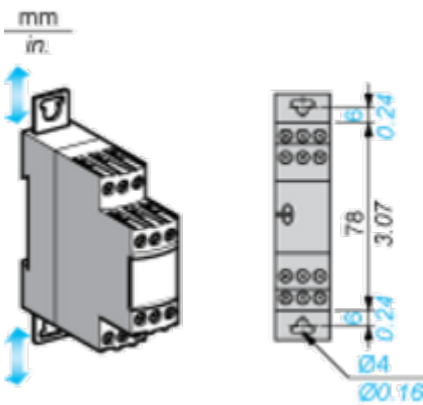
Width 22.5 mm

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Rail Mounting



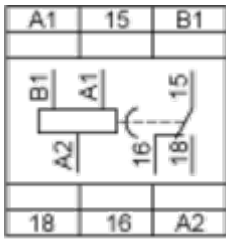
Screw Fixing



Connections and Schema

Internal Wiring Diagram

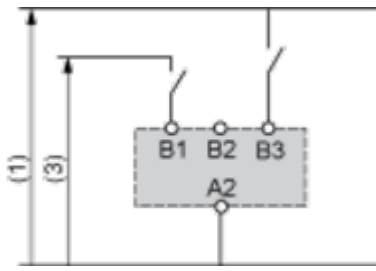
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Recommended Application Wiring Diagram

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Start On Energisation



- 1 Supply
- 3 24 V

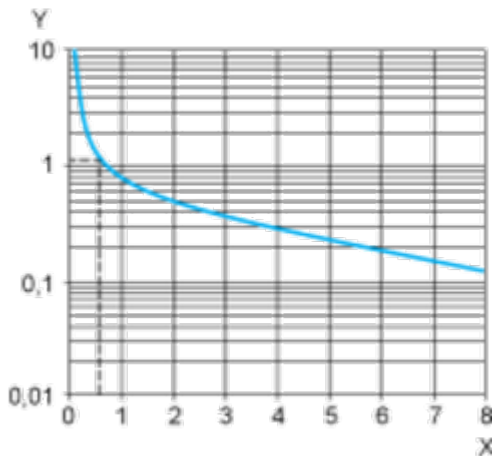
Performance Curves

Performance Curves

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**A.C. Load Curve 1**

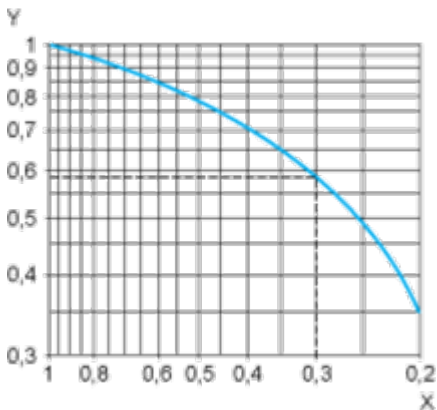
Electrical durability of contacts on resistive loading millions of operating cycles



X Current broken in A  
 Y Millions of operating cycles

**A.C. Load Curve 2**

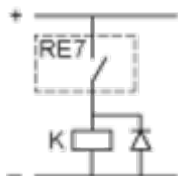
Reduction factor k for inductive loads (applies to values taken from durability curve 1).



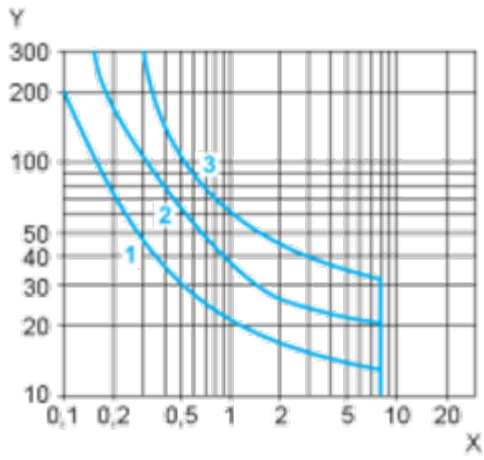
X Power factor on breaking (cos φ)  
 Y Reduction factor k

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 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:  $1.5 \cdot 10^6$  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



Technical Description

Function H : Interval Relay

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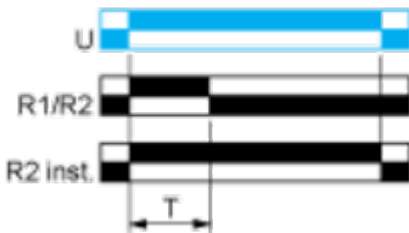
**Description**

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**

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-  Relay de-energised
-  Relay energised
-  Output open
-  Output closed

C	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
T	Timing period
Ta -	Adjustable On-delay
Tr -	Adjustable Off-delay
U	Supply