Product data sheet Characteristics

RE7MA11BU

symmetrical on and off-delay timing relay - 0.05..1 s - 24 V AC DC - 10C

Price*: 194.00 USD



! Discontinued

Range of product	Zelio Time	<u> </u>
Product or component type	Industrial timing relay	ក់ ភ្លឺ
Component name	RE7	
Time delay type	Ac	
Time delay range	0.05 s300 h	i i

Complementary

o o mpromornary		_
Discrete output type	Relay	
Contacts material	90/10 silver nickel contacts	
Width pitch dimension	0.89 in (22.5 mm)	
[Us] rated supply voltage	110240 V ACat 50/60 Hz 24 V AC/DC at 50/60 Hz 4248 V AC/DCat 50/60 Hz	4
Voltage range	0.851.1 Us	
Connections - terminals	Screw terminals, clamping capacity: 2 x 1.5 mm² flexible with cable end Screw terminals, clamping capacity: 2 x 2.5 mm² flexible without cable end	
Tightening torque	5.319.73 lbf.in (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	in the state of th
Minimum pulse duration	20 ms	
Reset time	50 ms	
Maximum switching voltage	250 V AC/DC	
Mechanical durability	20000000 cycles	
[lth] conventional free air thermal current	8 A	. <u>.</u>
[le] rated operational current	<= 2 A DC-13 24 Vat 158 °F (70 °C) conforming to IEC 60947-5-1/1991/VDE 0660 <= 3 A AC-15at 158 °F (70 °C) conforming to IEC 60947-5-1/1991/VDE 0660 <= 0.1 A DC-13 250 Vat 158 °F (70 °C) conforming to IEC 60947-5-1/1991/VDE 0660 <= 0.2 A DC-13 115 Vat 158 °F (70 °C) conforming to IEC 60947-5-1/1991/VDE 0660	3000
Minimum switching capacity	12 V / 10 mA	 F į
Input voltage	< 60 V X1Z2 terminal(s)	

_	മെ	١/	V1	72	term	inal	(c)
۲,	ทเม	v	ΥI	,,	16111	IIIIAI	151

	The terminal of
Maximum switching current	1 mA X1Z2 terminal(s) 1 mA Y1Z2 terminal(s)
Input compatibility	3/4 wires sensors PNP/NPN without internal load 50 m X1Z2 terminal(s) 3/4 wires sensors PNP/NPN without internal load 50 m Y1Z2 terminal(s)
Potentiometer characteristic	Linear 47 kOhm (+/- 20 %), 0.2 W, cable length: 25 m Z1Z2terminal(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	0.7 VA 24 V 1.6 VA 48 V 1.8 VA 110 V 8.5 VA 240 V
Power consumption in W	0.5 W 24 V 1.2 W 48 V
Terminal description	(15-16-18)OC_ON_OFF (B1-A2)CO (X1)UNUSED (Y1)UNUSED (Z1)UNUSED (Z2)UNUSED ALT
Height	3.07 in (78 mm)
Width	0.89 in (22.5 mm)
Depth	3.15 in (80 mm)
Product weight	0.33 lb(US) (0.15 kg)

Environment

1812-1
°F (-4085 °C)
F (-2060 °C)
(3K3) conforming to IEC 60721-3-3
(f = 1055 Hz) conforming to IEC 60068-2-6
ms conforming to IEC 60068-2-27
ninals) using)
ning to IEC 60664-1
ontact) conforming to IEC 61000-4-2 level 3 ir) conforming to IEC 61000-4-2 level 3
(10 V/m) conforming to IEC 61000-4-3 level 3
orming to IEC 61000-4-4 level 3
1 group 1 - class A 2 - class A

Ordering and shipping details

Category	22376 - RELAYS-MEASUREMENT(RM4)

Discount Schedule	CP2
GTIN	00785901481423
Nbr. of units in pkg.	1
Package weight(Lbs)	0.29999999999999
Returnability	N
Country of origin	ID

Contractual warranty

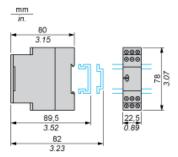
Warranty period	18 months
warranty pened	To monate

Product data sheet Dimensions Drawings

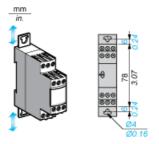
RE7MA11BU

Width 22.5 mm

Rail Mounting



Screw Fixing



RE7MA11BU

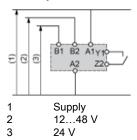
Internal Wiring Diagram



RE7MA11BU

Recommended Application Wiring Diagram

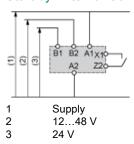
Start by External Control



RE7MA11BU

Recommended Application Wiring Diagram

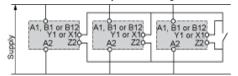
Start by External Control



RE7MA11BU

Control of Several Relays

Control of several relays with a single external control contact



RE7MA11BU

Connection of an External Control Contact Without Using Terminal Z2



Direct current supply only.

It is advisable to follow the recommended wiring schemes detailed above if the restrictions given are taken into account.

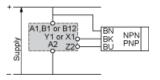


Direct current supply only.

It is advisable to follow the recommended wiring schemes detailed above if the restrictions given are taken into account.

RE7MA11BU

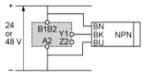
Connection 3-Wire NPN or PNP Sensor



RE7MA11BU

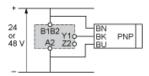
Connection 3-Wire NPN or PNP Sensor Without Using Terminal Z2

Connection NPN



It is advisable to follow the recommended wiring schemes detailed above if the restrictions given are taken into account.

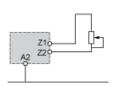
Connection PNP



It is advisable to follow the recommended wiring schemes detailed above if the restrictions given are taken into account.

RE7MA11BU

Connection of Potentiometer



RE7MA11BU

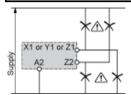
Connection Precautions

WARNING

UNEXPECTED EQUIPMENT OPERATION

No galvanic isolation between supply terminals and control inputs.

Failure to follow these instructions can result in death, serious injury, or equipment damage.



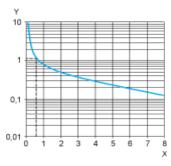
Product data sheet Performance Curves

RE7MA11BU

Performance Curves

A.C. Load Curve 1

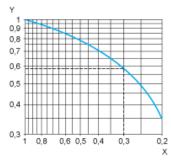
Electrical durability of contacts on resistive loading millions of operating cycles



X Current broken in AY Millions of operating cycles

A.C. Load Curve 2

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



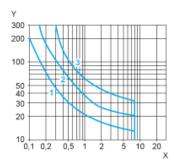
X Power factor on breaking ($\cos \phi$)

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 $\cos \varphi = 0.3$. 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 $\cos \varphi = 0.3$: 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 Y 1 2 3
- Current in A Voltage in V L/R = 20 ms L/R with load protection diode Resistive load

Product data sheet Technical Description

RE7MA11BU

Function Ac: On- and Off-Delay Relay with Control Signal

Description

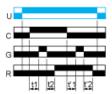
After power-up, closing of the control contact C causes the timing period T to start (timing can be interrupted by operating the Gate control contact G). At the end of this timing period, the relay closes.

When control contact C re-opens, the timing T starts.

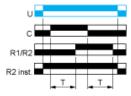
At the end of this timing period T, the output reverts to its initial position (timing can be interrupted by operating the Gate control contact G).

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.)

Product data sheet Technical Description

RE7MA11BU

Legend

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 periodTa - Adjustable On-delayTr - Adjustable Off-delay

U Supply

RE7MA11BU is replaced by:



Relay Output RE22R1ACMR

On and Off-delay Timing Relay - 0.05s...300h - 24...240V AC/DC - 1C/O

Qty 1

Reason for Substitution: End of life | Substitution date: 01 January 2017