RE7MY13MW

time delay relay 8 functions - 0.05..1 s - 240 V AC DC - 2OC

Product availability: Stock - Normally stocked in distribution facility

Price*: 277.00 USD

Main

Commercial Status	Commercialised
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	A C D Di H Qg Qt W
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	24...240 V AC/DC at 50/60 Hz
Voltage range	0.85...1.1 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	5.31...9.73 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
[Ie] rated operational current	<= 3 A AC-15at 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 <= 0.1 A DC-13 250 Vat 158 °F (70 °C) conforming to IEC 60947-5-1/1991/VDE 0660 <= 2 A DC-13 24 Vat 158 °F (70 °C) conforming to IEC 60947-5-1/1991/VDE 0660
Minimum switching capacity	12 V / 10 mA
Input voltage	< 60 V Y1Z2 terminal(s) < 60 V X1Z2 terminal(s)
Maximum switching current	1 mA Y1Z2 terminal(s) 1 mA X1Z2 terminal(s)
Input compatibility	3/4 wires sensors PNP/NPN without internal load, cable length: <= 164.04 ft (50 m) Y1Z2 terminal(s) 3/4 wires sensors PNP/NPN without internal load, cable length: <= 164.04 ft (50 m) X1Z2 terminal(s)

Potentiometer characteristic	Linear 47 kOhm (+/- 20 %), 0.2 W, cable length: <= 82.02 ft (25 m) Z1Z2terminal(s)
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	3.2 VA 110 V 2.5 VA 48 V 6 VA 240 V 2 VA 24 V
Power consumption in W	3.2 W 110 V 2 W 240 V 2 W 24 V 1 W 48 V
Peak current	0.001 kAfor 30 s on energisation
Terminal description	(15-16-18)OC_OFF (25-26-28)OC_OFF (A1-A2)CO (X1)UNUSED (Y1)UNUSED (Z1)UNUSED (Z2)UNUSED
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

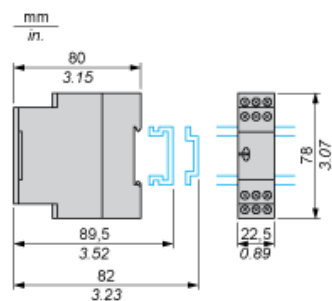|	
Immunity to microbreaks	3 ms
Standards	EN/IEC 61812-1
Product certifications	CSA GL UL
Ambient air temperature for storage	-40...185 °F (-40...85 °C)
Ambient air temperature for operation	-4...140 °F (-20...60 °C)
Relative humidity	15...85 % (3K3) conforming to IEC 60721-3-3
Vibration resistance	0.35 mm (f = 10...55 Hz) conforming to IEC 60068-2-6
Shock resistance	15 gn 11 ms conforming to IEC 60068-2-27
IP degree of protection	IP50 (housing) 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	9.14 V/yd (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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Ordering and shipping details

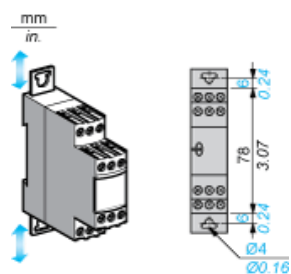|	
Category	22376 - RELAYS-MEASUREMENT(RM4)
Discount Schedule	CP2
GTIN	00785901481447
Nbr. of units in pkg.	1
Product availability	Stock - Normally stocked in distribution facility
Returnability	Y
Country of origin	ID

Contractual warranty

Warranty period	18 months

Width 22.5 mm

Rail Mounting

```
mm
in.
```

```
80
3.15
```

```
78
3.07
```

```
89,5
3.52
```

```
82
3.23
```

```
22,5
0.89
```

Screw Fixing

```
mm
in.
```

```
78
3.07
```

```
6
0.24
```

```
6
0.24
```

```
Ø4
Ø0.16
```

Internal Wiring Diagram
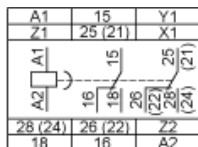
Recommended Application Wiring Diagram

Start on Energisation
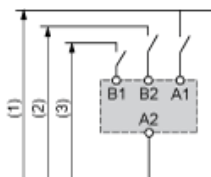
1   Supply
2   12…48 V
3   24 V

Recommended Application Wiring Diagram

Start by External Control
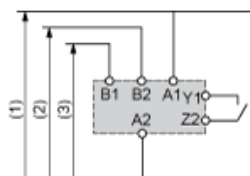
1   Supply
2   12…48 V
3   24 V

Recommended Application Wiring Diagram

External Control of Partial Stop
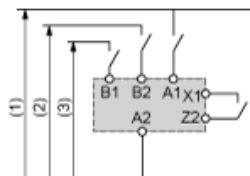
1   Supply
2   12…48 V
3   24 V

Control of Several Relays

Control of several relays with a single external control contact
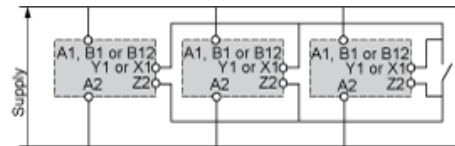
Connection of Potentiometer
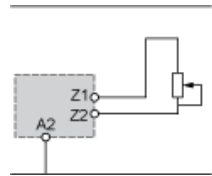
Connection Precautions

⚠ 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.

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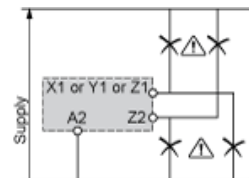
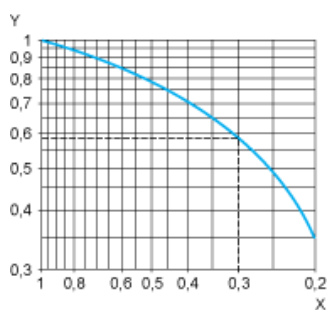## Performance Curves

A.C. Load Curve 1

Electrical durability of contacts on resistive loading millions of operating cycles
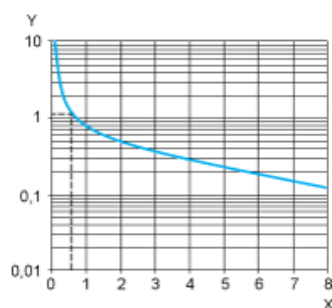
X   Current broken in A
Y   Millions of operating cycles

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 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:$1.5\ 10^{6}$ operating cycles x 0.6 = 900 000 operating cycles.
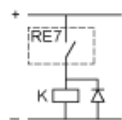
D. C. Load Limit Curve
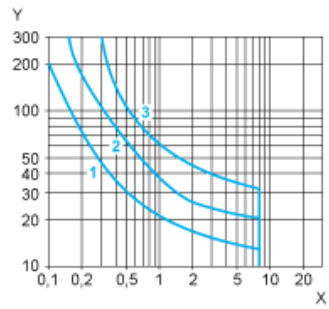
X   Current in A
Y   Voltage in V
1   L/R = 20 ms
2   L/R with load protection diode
3   Resistive load
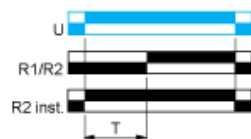
Function A : Power on Delay Relay

Description

The timing period T begins on energisation. After timing, the output(s) R close(s). The second output can be either timed or instantaneous.
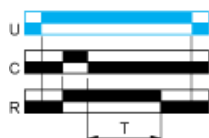
Function: 1 Output

Function: 2 Outputs

2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)
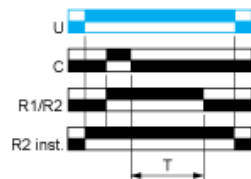
Function C : Off-Delay Relay with Control Signal

Description

After power-up and closing of the control contact C, the output R closes. When control contact C re-opens, timing T starts. At the end of the timing period, the output(s) R revert(s) to its/their initial state. The second output can be either timed or instantaneous.
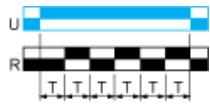
Function: 1 Output

Function: 2 Outputs

2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

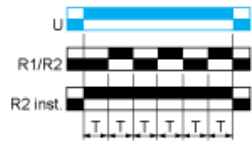## Function D : Symmetrical Flasher Relay (Starting Pulse Off)

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.)

Function Di : Symmetrical Flasher Relay (Starting Pulse On)
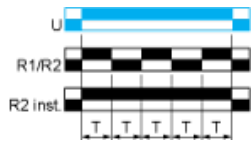
Description

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.
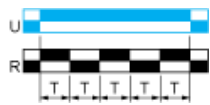
Function: 1 Output

Function: 2 Outputs

2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)
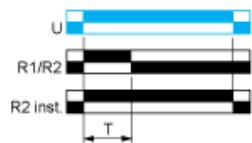
Function H : Interval Relay

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.

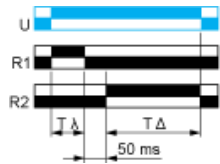### Function: 1 Output

Function: 2 Outputs

2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Qg: Star-Delta Timing

Description

Timing for star-delta starter with contact for switching to star connection.
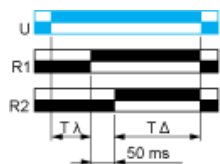
Function: 1 Output

Function Qt: Star-Delta Timing

Description

Timing for star-delta starter with double On-delay period.

Function: 1 Output

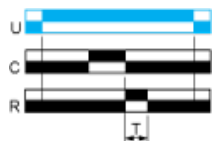## Function W : Interval Relay with Control Signal Off

Description

After power-up and opening of the control contact, the output(s) close(s) for a timing period T.
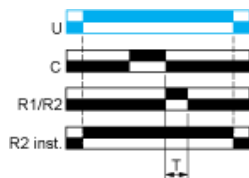At the end of this timing period the output(s) revert(s) to its/their initial state.
The second output can be either timed or instantaneous.

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
■ (blue)	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