



Zeitrelais 8 Funktionen - 0,05s-300h
- 2 W - 24-240VAC/DC

RE7MY13MW

⚠ Eingestellt am: 01.06.2016

EAN Code: 3389110311822

⚠ Nicht mehr lieferbar

Hauptmerkmale

Baureihe	Zelio Zeit
Produkt- Oder Komponententyp	Industrielles Zeitrelais
Art Und Zusammensetzung Der Kontakte	2 Wechslerkontakte
Komponentenname	RE7
Zeitverzögerungsfunktion	D A Di Qt W Qg H C
Zeitverzögerungsbereich	0,05 s - 300 h

Zusatzmerkmale

Diskreter Ausgangstyp	Relais
Kontaktmaterial	90/10 Silber-Nickel-Kontakte
Breite Abstandsmaß	22,5 mm
[Uh,Nom] Bemessungsbetriebsspannung	24 - 240 V AC/DC 50/60 Hz
Spannungsbereich	0,85 - 1,1 Us
Anschlüsse - Klemmen	Schraubklemmen, 2 x 1,5 mm² flexibel mit Kabelende Schraubklemmen, 2 x 2,5 mm² flexibel ohne Kabelende
[M] Anzugsdrehmoment	0,6...1,1 Nm
Einstellgenauigkeit Der Zeitverzögerung	+/- 10 % der Gesamtskala
Wiederholungsgenauigkeit	+/- 0,2 %
Temperaturabweichung	< 0,07 %/°C
Spannungsdrift	< 0,2 %/V
Minimale Impulsdauer	20 ms
Rückstellzeit	50 ms
Maximale Schaltspannung	250 V AC/DC
Mechanische Lebensdauer	20000000 Zyklen
[Ith] Konventioneller Thermischer Strom In Freier Luft	8 A

Haftungsausschluss: Diese Dokumentation dient nicht als Ersatz für die Beurteilung der Eignung oder Verlässlichkeit dieser Produkte für bestimmte Verwendungsbereiche des Benutzers und darf nicht zu diesem Zweck verwendet werden.

[Ie] Max. Bemessungsbetriebsstrom	2 A DC-13 24 V bei 70 °C entspricht IEC 60947-5-1/1991/VDE 0660 0,1 A DC-13 250 V bei 70 °C entspricht IEC 60947-5-1/1991/VDE 0660 0,2 A DC-13 115 V bei 70 °C entspricht IEC 60947-5-1/1991/VDE 0660 3 A AC-15 bei 70 °C entspricht IEC 60947-5-1/1991/VDE 0660
Minimale Schaltleistung	bei 12 V 10 mA
Eingangsspannung	< 60 V X1Z2 Bedienpulte < 60 V Y1Z2 Bedienpulte
Maximaler Schaltstrom	1 mA (X1Z2) 1 mA (Y1Z2)
Eingangs-Kompatibilität	3/4-Daht PNP/NPN-Sensoren ohne interne Last <50 m X1Z2 Bedienpulte 3/4-Daht PNP/NPN-Sensoren ohne interne Last <50 m Y1Z2 Bedienpulte
Potentiometercharakteristik	Linear 47 kOhm (+/-20 %), 0,2 W, Kabellänge <25 m Z1Z2 Bedienpulte
Beschriftung	CE
Überspannungskategorie	III entspricht IEC 60664-1
Nennisolationsspannung Ui	250 V zwischen Kontaktschaltkreis und Steuerbefehlen IEC zertifiziert 250 V zwischen Kontaktschaltkreis und Stromversorgung IEC zertifiziert 300 V zwischen Kontaktschaltkreis und Steuerbefehlen CSA zertifiziert 300 V zwischen Kontaktschaltkreis und Stromversorgung CSA zertifiziert
Wert F. Trennung Der Stromver.	> 0,1 Uc
Betriebsposition	Jede Position ohne Leistungsminderung
Stoßspannungsfestigkeit	2 kV entspricht IEC 61000-4-5 Level 3
Leistungsaufnahme In Va	2 VA bei 24 V 6 VA bei 240 V 2,5 VA bei 48 V 3,2 VA bei 110 V
Leistungsaufnahme In W	1 W bei 48 V 2 W bei 24 V 2 W bei 240 V 3,2 W bei 110 V
Spitzenstrom	0,001 kA für 30 s bei Aktivierung
Anschlussbeschreibung	(25-26-28)OC_OFF (15-16-18)OC_OFF (Z1)UNUSED (X1)UNUSED (Y1)UNUSED (Z2)UNUSED (A1-A2)CO
Höhe	78 mm
Breite	22,5 mm
Tiefe	80 mm
Produktgewicht	0,15 kg

Montage

Störfestigkeit Gegen Unterbrechungen	3 ms
Normen	EN/IEC 61812-1
Produktzertifizierungen	GL UL CSA
Umgebungstemperatur Bei Lagerung	-40...85 °C
Umgebungstemperatur Bei Betrieb	-20...60 °C
Relative Feuchtigkeit	15...85 % 3K3 entspricht IEC 60721-3-3
Vibrationsfestigkeit	0,35 mm (f= 10...55 Hz) entspricht IEC 60068-2-6

Stoßfestigkeit	15 gn für 11 ms entspricht IEC 60068-2-27
Schutzart (Ip)	IP20 (Klemmen) IP50 (Gehäuse)
Verschmutzungsgrad	3 entspricht IEC 60664-1
Durchschlagfestigkeit	2,5 kV
Nicht Ableitende Stoßwelle	4,8 kV
Widerstandsfähigkeit Gegen Elektrostatische Entladung	6 kV in Kontakt entspricht IEC 61000-4-2 Level 3 8 kV in der Luft entspricht IEC 61000-4-2 Level 3
Widerstandsfähigkeit Gegen Elektromagnetische Felder	10 V/m entspricht IEC 61000-4-3 Level 3
Widerstandsfähigkeit Gegen Kurze Störsignale	2 kV entspricht IEC 61000-4-4 Level 3
Strahl-/Leitungsgeb. Störung	CISPR22 - Klasse A CISPR11 Gruppe 1 - Klasse A

Verpackungseinheiten

Vpe 1 Art	PCE
Vpe 1 Menge	1

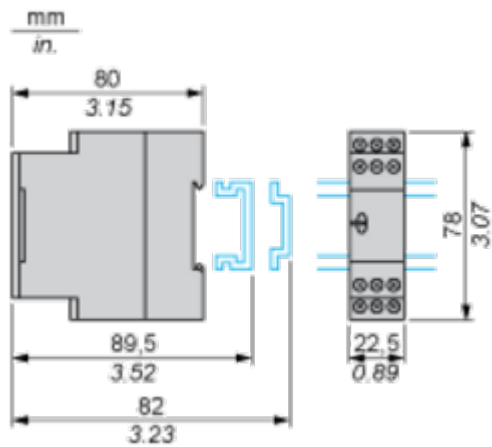
Vertragliche Gewährleistung

Garantie	18 months
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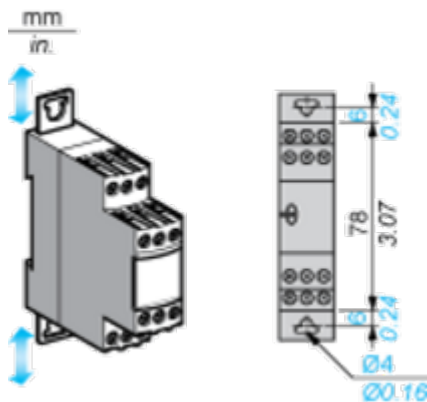
Dimensions Drawings

Width 22.5 mm

Rail Mounting

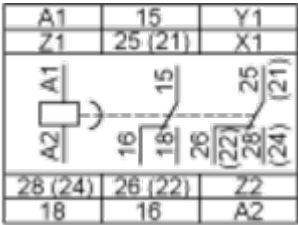


Screw Fixing



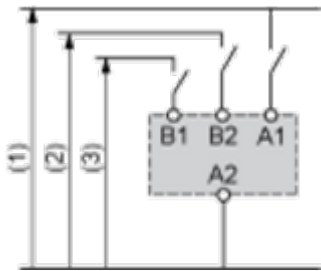
Connections and Schema

Internal Wiring Diagram



Recommended Application Wiring Diagram

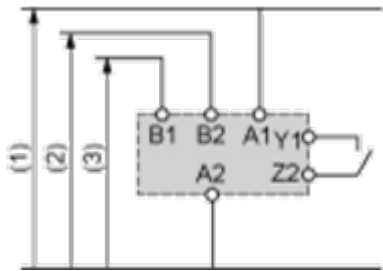
Start on Energisation



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

Recommended Application Wiring Diagram

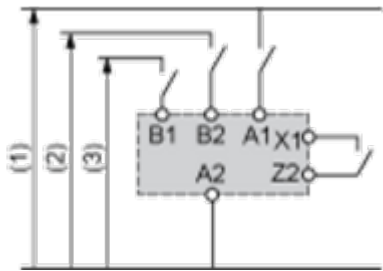
Start by External Control



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

Recommended Application Wiring Diagram

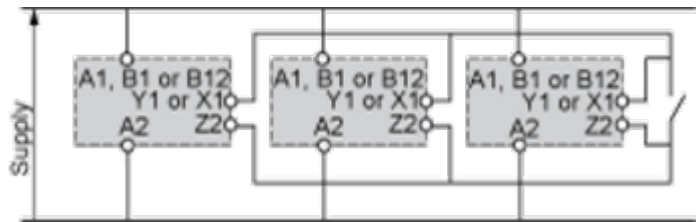
External Control of Partial Stop



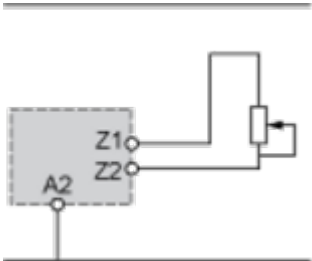
- 1 Supply
- 2 12...48 V
- 3 24 V

Control of Several Relays

Control of several relays with a single external control contact



Connection of Potentiometer



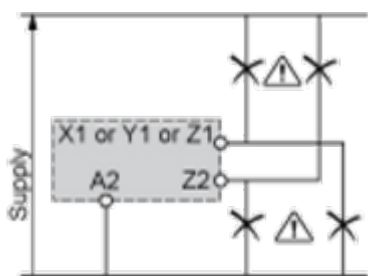
Connection Precautions

 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.

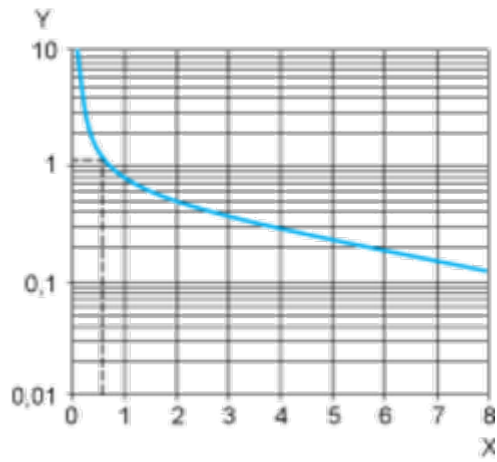


Performance Curves

Performance Curves

A.C. Load Curve 1

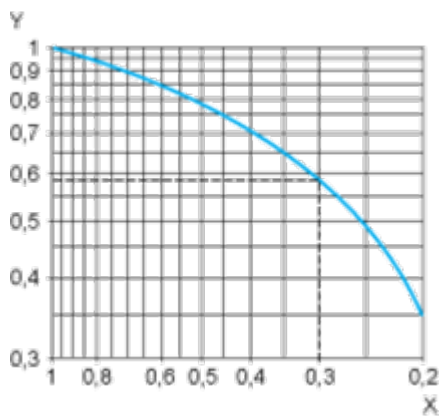
Electrical durability of contacts on resistive loading millions of operating cycles



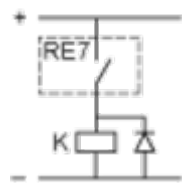
X Current broken in A
Y Millions of operating cycles

A.C. Load Curve 2

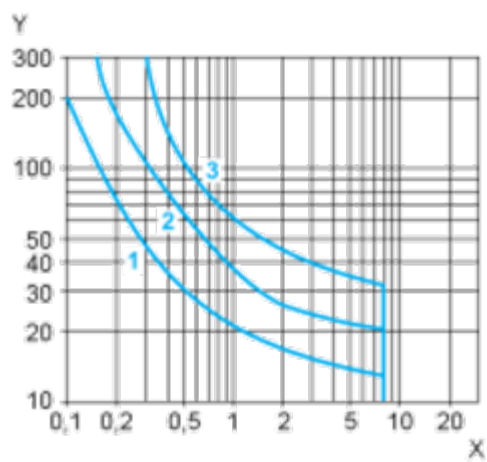
Reduction factor k for inductive loads (applies to values taken from durability curve 1).



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 $\cos \phi = 0.3$. 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: $1.5 \cdot 10^6$ operating cycles $\times 0.6 = 900\,000$ 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 A : Power on Delay Relay

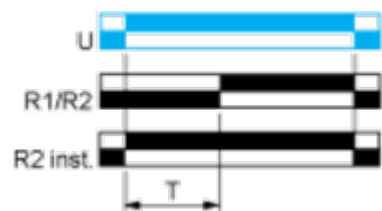
Description

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



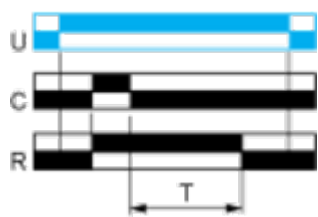
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function C : Off-Delay Relay with Control Signal

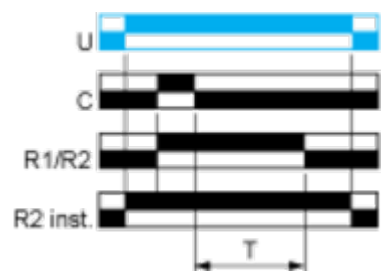
Description

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



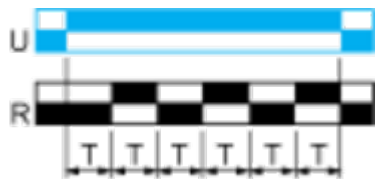
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function D : Symmetrical Flasher Relay (Starting Pulse Off)

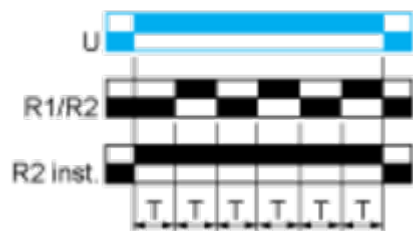
Description

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



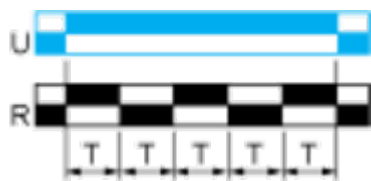
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Di : Symmetrical Flasher Relay (Starting Pulse On)

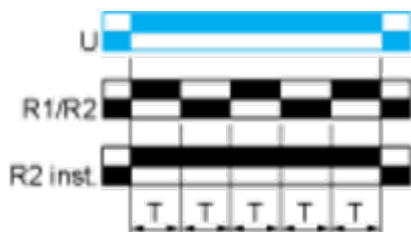
Description

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

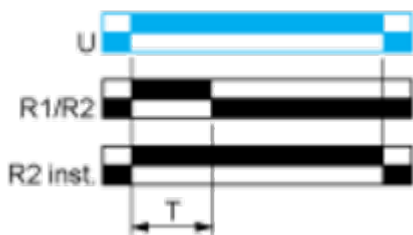
Description

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



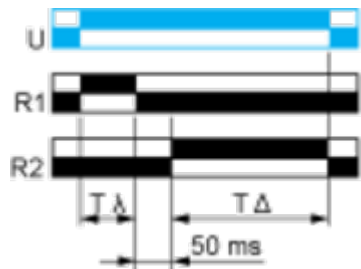
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Qg: Star-Delta Timing

Description

Timing for star-delta starter with contact for switching to star connection.

Function: 1 Output

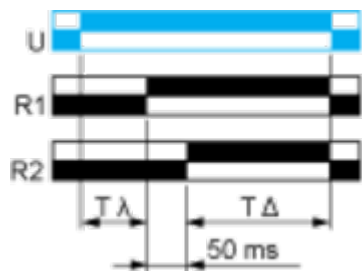


Function Qt: Star-Delta Timing

Description

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

Function: 1 Output



Function W : Interval Relay with Control Signal Off

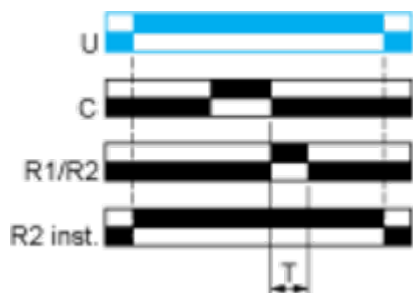
Description

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

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