

Fiche technique du produit

Caractéristiques

RE7MY13BU

Zelio Time - relais temporisé 8 fonctions - 0,05..1s
- 24Vca/cc - 2OF

Statut commercial : Arrêt de fabrication



! Ce produit n'est plus fabriqué

Principales

Gamme de produits	Zelio Time
Fonction produit	Relais de temporisation industriel
Description des contacts	2 "O/F"
Nom de composant	RE7
Type de temporisation	Qt A C H Qg W D Di
Plage de temporisation	0,05 s...300 H

Complémentaires

Type de sortie numérique	Relais
Matériau des contacts	Contacts nickel argent 90/10
Dimension du pas en largeur	22,5 mm
[Us] tension d'alimentation	110 à 240 V CA 50/60 Hz 24 V CA/CC 50/60 Hz 42...48 V CA/CC 50/60 Hz
Plage d'utilisation en tension	0,85 à 1,1 Us
Mode de raccordement	Bornes à vis, 2 x 1,5 mm ² souple avec embout Bornes à vis, 2 x 2,5 mm ² souple sans embout
Couple de serrage	0,6...1,1 N.m
Réglage exact du temps de retard	+/- 10 % pleine échelle
Précision de répétition	+/-0,2 %
Dérive en température	< 0,07 %/°C
Dérive en tension	< 0,2 %/V
Durée minimale de l'impulsion	20 ms
Temps de réinitialisation	50 ms
Tension de coupure maximale	250 V CA/CC
Endurance mécanique	20000000 cycle

[Ith] courant thermique conventionnel	8 A
[Ie] courant assigné d'emploi maximal	2 A DC-13 24 V à 70 °C se conformer à IEC 60947-5-1/1991/VDE 0660 0,1 A DC-13 250 V à 70 °C se conformer à IEC 60947-5-1/1991/VDE 0660 0,2 A DC-13 115 V à 70 °C se conformer à IEC 60947-5-1/1991/VDE 0660 3 A AC-15 à 70 °C se conformer à IEC 60947-5-1/1991/VDE 0660
Capacité de commutation minimum	10 mA à 12 V
Tension d'entrée	< 60 V Y1Z2 terminal(s)
Courant commuté maximum	1 mA (Y1Z2)
Compatibilité de l'entrée numérique	Détecteurs à 3/4 fils PNP/NPN sans charge interne <50 m Y1Z2 terminal(s)
Caractéristiques du potentiomètre	Linéaire 47 kOhm (+/- 20 %), 0,2 W, longueur de câble <25 m Z1Z2 raccordement(s)
Marquage	CE
Catégorie de surtension	III se conformer à IEC 60664-1
[Ui] tension assignée d'isolement	250 V entre circuit de contact et entrées de commande CEI certifié 250 V entre circuit de contact et alimentation CEI certifié 300 V entre circuit de contact et entrées de commande CSA certifié 300 V entre circuit de contact et alimentation CSA certifié
Valeur de désengagement	> 0,1 Uc
Position de montage	Toutes positions sans
Tenue aux ondes de choc	2 kV se conformer à CEI 61000-4-5 niveau 3
Puissance consommée en VA	2 VA à 48 V 1,2 VA à 24 V 12,5 VA à 240 V 2,8 VA à 110 V
Puissance consommée maximale en W	0,8 W à 24 V 1,6 W à 48 V
Description des bornes	ALT (Z2)UNUSED (B1-A2)CO (15-16-18)OC (25-26-28)OC (Y1)UNUSED (Z1)UNUSED
Hauteur	78 mm
Largeur	22,5 mm
Profondeur	80 mm
Poids du produit	0,15 kg

Environnement

Immunité aux micro-coupures	3 ms
Normes	EN/IEC 61812-1
Certifications du produit	UL CSA GL
Température ambiante de stockage	-40...85 °C
Température de fonctionnement	-20...60 °C
Humidité relative	15...85 % 3K3 se conformer à CEI 60721-3-3
Tenue aux vibrations	0,35 mm (f= 10...55 Hz) se conformer à CEI 60068-2-6
Tenue aux chocs mécaniques	15 gn pour 11 ms se conformer à CEI 60068-2-27
Degré de protection IP	IP20 (bornes) IP50 (enveloppe)
Degré de pollution	3 se conformer à IEC 60664-1
Tenue diélectrique	2,5 kV
Onde de choc non-dissipative	4,8 kV
Tenue aux décharges électrostatiques	6 kV en contact se conformer à CEI 61000-4-2 niveau 3 8 kV dans l'air se conformer à CEI 61000-4-2 niveau 3
Tenue aux champs électromagnétiques rayonnés	10 V/m se conformer à CEI 61000-4-3 niveau 3
Tenue aux transitoires rapides	2 kV se conformer à CEI 61000-4-4 niveau 3
Perturbation radiée/conduite	Groupe 1 CISPR11 - Classe A

Emballage

Poids de l'emballage 1	0,145 kg
Hauteur de l'emballage 1	0,270 dm
Largeur de l'emballage 1	0,820 dm
Longueur de l'emballage 1	0,850 dm

Garantie contractuelle

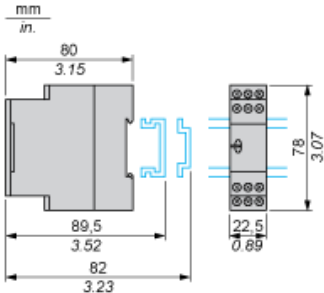
Garantie	18 months
----------	-----------

Fiche technique du produit RE7MY13BU

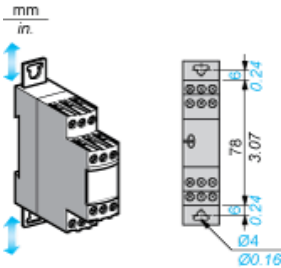
Dimensions Drawings

Width 22.5 mm

Rail Mounting



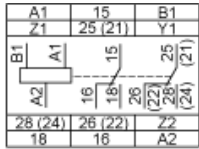
Screw Fixing



Fiche technique du produit RE7MY13BU

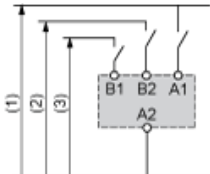
Connections and Schema

Internal Wiring Diagram



Recommended Application Wiring Diagram

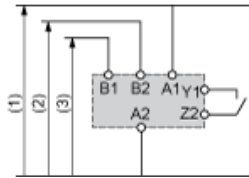
Start on Energisation



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

Recommended Application Wiring Diagram

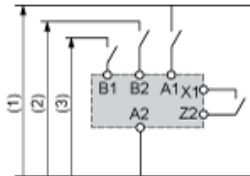
Start by External Control



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

Recommended Application Wiring Diagram

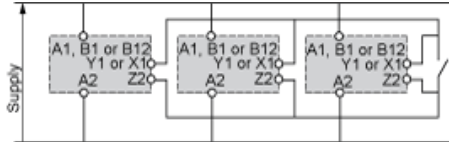
External Control of Partial Stop



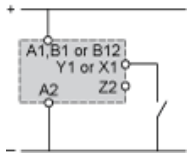
- 1 Supply
- 2 12...48 V
- 3 24 V

Control of Several Relays

Control of several relays with a single external control contact

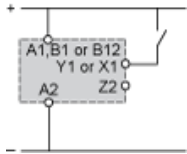


Connection of an External Control Contact Without Using Terminal Z2



Direct current supply only.

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



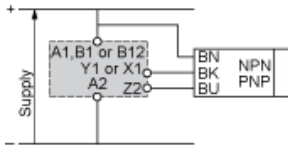
Direct current supply only.

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

Fiche technique du produit RE7MY13BU

Connections and Schema

Connection 3-Wire NPN or PNP Sensor

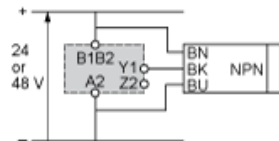


Fiche technique du produit RE7MY13BU

Connections and Schema

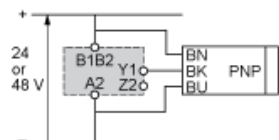
Connection 3-Wire NPN or PNP Sensor Without Using Terminal Z2

Connection NPN



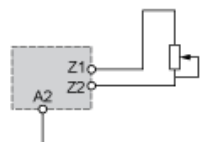
It is advisable to follow the recommended wiring schemes detailed above if the restrictions given are taken into account.

Connection PNP



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

Connection of Potentiometer



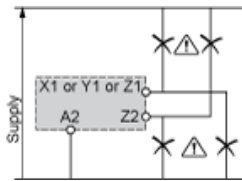
Connection Precautions

⚠ WARNING

UNEXPECTED EQUIPMENT OPERATION

No galvanic isolation between supply terminals and control inputs.

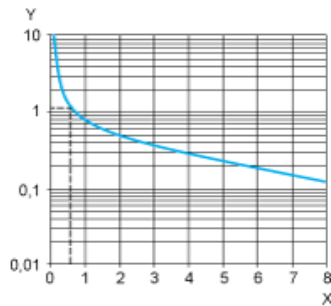
Failure to follow these instructions can result in death, serious injury, or equipment damage.



Performance Curves

A.C. Load Curve 1

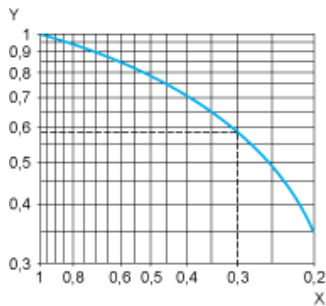
Electrical durability of contacts on resistive loading millions of operating cycles



X Current broken in A
Y Millions of operating cycles

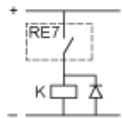
A.C. Load Curve 2

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

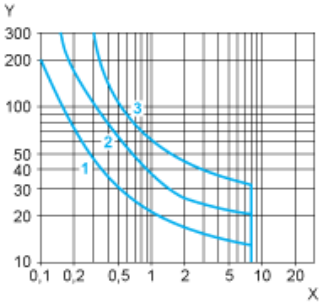


X Power factor on breaking (cos φ)
Y Reduction factor k

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 $\cos \phi = 0.3$. 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

Function A : Power on Delay Relay

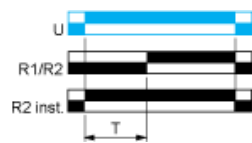
Description

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



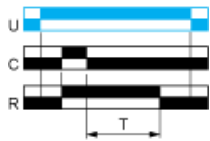
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function C : Off-Delay Relay with Control Signal

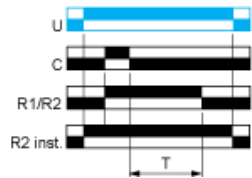
Description

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



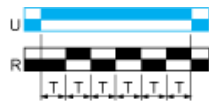
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function D : Symmetrical Flasher Relay (Starting Pulse Off)

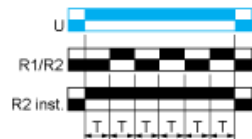
Description

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



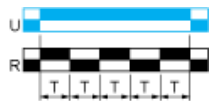
2 timed outputs (R1/R2) or 1 timed output (R1) and 1 instantaneous output (R2 inst.)

Function Di : Symmetrical Flasher Relay (Starting Pulse On)

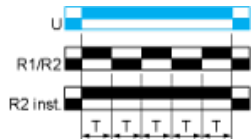
Description

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

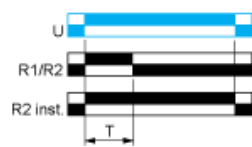
Description

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.)

Fiche technique du produit RE7MY13BU

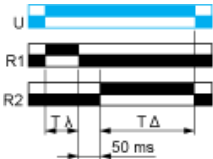
Technical Description

Function Qg: Star-Delta Timing

Description

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

Function: 1 Output

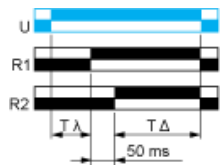


Function Qt: Star-Delta Timing

Description

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

Function: 1 Output



Function W : Interval Relay with Control Signal Off

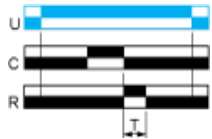
Description

After power-up and opening of the control contact, the output(s) close(s) for a timing period T.

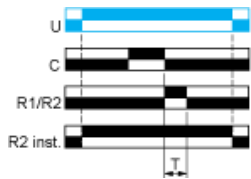
At the end of this timing period the output(s) revert(s) to its/their initial state.

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.).

Fiche technique du produit RE7MY13BU

Technical Description

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

La référence RE7MY13BU est remplacée par :



Sortie relais RE22R2MYMR

Zelio Time RE22 - relais tempo - 2OF - multi - 1s à 300h - 24V à 240VACDC

Qté 1

Raison de la substitution : Arrêt de fabrication | Date de substitution : 01 janvier 2016
