

## Product data sheet

### Characteristics

## RE9TA51MW

releu temporizare întârz. acționare - 40..3600 s  
- 240 V c.a. c.c. - semicond.



### Principal

|                           |                                 |
|---------------------------|---------------------------------|
| Gama de produse           | Zelio Time                      |
| Tip produs sau componenta | Releu industrial de temporizare |
| Tip de iesire discreta    | Cu semiconductori               |
| Nume componenta           | RE9                             |
| Tipintarziere             | A                               |
| Intervalul de intarziere  | 40 s...1 H                      |

### Suplimentar

|                                          |                                                                                                                                      |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Latimea varfului                         | 22,5 mm                                                                                                                              |
| [Us] tensiune nominala de alimentare     | 24...240 V c.a./c.c. 50/60 Hz                                                                                                        |
| Interval de tensiune                     | 0,85...1,1 Us                                                                                                                        |
| Conexiuni - borne                        | Borne cu surub, 2 x 1,5 mm <sup>2</sup> flexibil cu pini<br>Borne cu surub, 2 x 2,5 mm <sup>2</sup> flexibil fara terminale de cablu |
| Cuplu de strangere                       | 0,6...1,1 N.m                                                                                                                        |
| Setarea preciziei temporizarii           | < +/- 20 %                                                                                                                           |
| Precizie de repetare                     | < 1 %                                                                                                                                |
| Resetare timp                            | 100 ms după perioada de întârziere                                                                                                   |
| Abatere temperatura                      | <= 0,1 %/°C                                                                                                                          |
| Curent nominal maxim de functionare [Ie] | 0,7 A la 20 °C                                                                                                                       |
| Curent minim de iesire                   | 10 mA la 20 °C                                                                                                                       |
| Curent la suprasarcina                   | <= 15 A pentru 10 ms conformitate cu VDE 0435 (partea 303), 4.8.3/clasa II                                                           |
| Cadere de tensiune maxima                | <3 V la închis stare 0,7 A                                                                                                           |
| Curent de fuga maxim                     | 6 mA deschis contacte                                                                                                                |
| Puterea disipata maxima in W             | 2,5 W                                                                                                                                |
| Durabilitate electrica                   | 100000000 cic                                                                                                                        |
| Marcaj                                   | CE                                                                                                                                   |
| Categorie de supratensiune               | III conformitate cu SR EN 60664-1                                                                                                    |
| [Ui] tensiune nominala de izolatie       | 250 V conformitate cu IEC<br>300 V conformitate cu CSA                                                                               |
| Valoare de decuplare a alimentarii       | > 0,1 Uc                                                                                                                             |
| Pozitie de functionare                   | Orice pozitie fără declasare                                                                                                         |
| Incercare la supratensiuni tranzitorii   | 2 kV conformitate cu IEC 61000-4-5 nivel 3                                                                                           |
| CAD latime globala                       | 22,5 mm                                                                                                                              |
| CAD inaltime globala                     | 78 mm                                                                                                                                |
| CAD adancime globala                     | 80 mm                                                                                                                                |
| Greutate neta                            | 0,11 kg                                                                                                                              |

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## Mediu

|                                         |                                                                                                                |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Imunitate la microîntreruperi           | 100 Ms în timpul perioadei de întârziere<br>2 ms după perioada de întârziere                                   |
| Factor de scadere a valorii nominale    | Niciunul >20 °C                                                                                                |
| Standarde                               | EN/IEC 61812-1                                                                                                 |
| Certificari produs                      | CSA[RETURN]UL[RETURN]GL                                                                                        |
| Temperatura ambietala pentru depozitare | -40...85 °C                                                                                                    |
| Temperatura ambientală de functionare   | -20...60 °C                                                                                                    |
| Umiditate relativa                      | 15...85 % 3K3 conformitate cu IEC 60721-3-3                                                                    |
| Rezistenta la vibratii                  | 0.35 mm (f= 10...55 Hz) conformitate cu IEC 60068-2-6                                                          |
| Rezistenta la socuri                    | 15 gn pentru 11 ms conformitate cu IEC 60068-2-27                                                              |
| Grad de protectie IP                    | IP20 (borne)<br>IP50 (carcasă)                                                                                 |
| Grad de poluare                         | 3 conformitate cu SR EN 60664-1                                                                                |
| Rigiditate dielectrica                  | 2,5 kV                                                                                                         |
| Unda de soc nedisipata                  | 4,8 kV                                                                                                         |
| Rezistenta la descarcari electrostatice | 6 kV (în contact) conformitate cu IEC 61000-4-2 nivel 3<br>8 kV (în aer) conformitate cu IEC 61000-4-2 nivel 3 |
| Rezistenta la campuri electromagnetice  | 10 V/m conformitate cu IEC 61000-4-3 nivel 3                                                                   |
| Rezistenta la tranzienti rapizi         | 2 kV conformitate cu IEC 61000-4-4 nivel 3                                                                     |
| Perturbatie radiata/condusa             | CISPR11 grup 1 - clasa A<br>CISPR22 - clasa A                                                                  |

## Unitati de ambalare

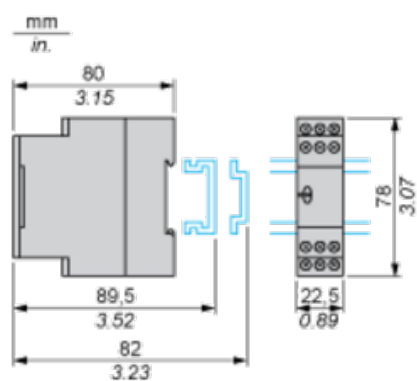
|                                                     |     |
|-----------------------------------------------------|-----|
| Unitate de masura pentru prima forma de impachetare | PCE |
| Numar unitati in prima forma de impachetare         | 1   |

## Garanție contractuală

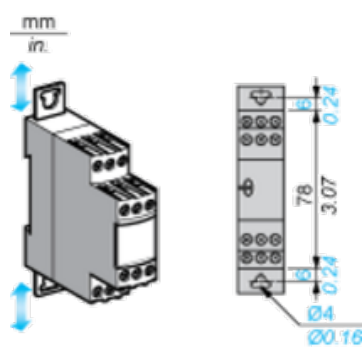
|          |         |
|----------|---------|
| Garantie | 18 luni |
|----------|---------|

Width 22.5 mm

### Rail Mounting



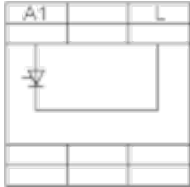
### Screw Fixing



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### Internal Wiring Diagram

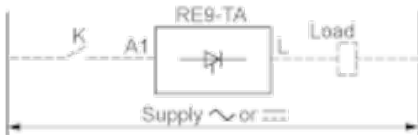
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### Recommended Application Wiring Diagram

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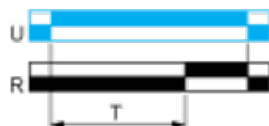
The timing relay is placed in series, with the load whose energisation is to be delayed on one side and switch K on the other side. The mains supply may be a.c. or d.c. and the voltage may be between 24 V and 240 V.

## Function A : Power on Delay Relay

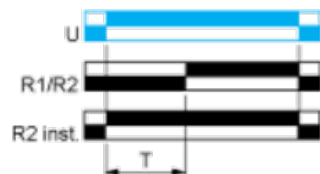
### Description

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.)

### 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                                                               |