



Main

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| Range of product | Zelio Time |
| Product or component type | Electronic timing relay |
| Electrical connection | Plug-in sub-base 11 pin(s) |
| Discrete output type | Relay |
| Contacts type and composition | 2 C/O timed contacts, AgNi (cadmium free) |
| Component name | RE48A |
| Time delay type | B Di A C |
| Time delay range | 0.5...30 s 5...300 s 0.2...12 min 0.5...30 h 2...120 s 0.05...3 s 0.2...12 s 0.02...1.2 s 2...120 min 5...300 min 0.5...30 min 5...300 h 2...120 h 0.2...12 h |
| [Us] rated supply voltage | 24...240 V AC/DC 50/60 Hz |
| Voltage range | 0.85...1.1 Us AC 0.9...1.1 Us DC |
| [In] rated current | 5 A |

Complementary

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| Product front plate size | 48 x 48 mm |
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| Control type | Selector switch front panel |
| Housing material | Self-extinguishing |
| Repeat accuracy | +/- 0.2 % of the maximum setting value conforming to IEC 61812-1 |
| Temperature drift | +/- 0.02 %/°C of the maximum setting value conforming to IEC 61812-1 |
| Voltage drift | +/- 0.2 %/V of the maximum setting value at 48...240 V +/- 1 %/V of the maximum setting value at 24...48 V |
| Setting accuracy of time delay | +/- 5 % of full scale at 25 °C conforming to IEC 61812-1 |
| Minimum pulse duration | 20 ms |
| Reset time | 25 ms on de-energisation |
| Pick up duration | 55 ms |
| On-load factor | 100 % |
| Power consumption in VA | 1.1 VA at 24 V 4.8 VA at 240 V |
| Power consumption in W | 0.5 W at 24 V 1.7 W at 240 V |
| Breaking capacity | 1250 VA |
| Minimum switching current | 100 mA |
| Maximum switching current | 5 A |
| Maximum switching voltage | 250 V AC/DC |
| Electrical durability | 100000 cycles |
| Mechanical durability | 30000000 cycles |
| Output voltage | 240 V at 5 A AC-12 30 V at 2 A DC-13 240 V at 1.5 A AC-15 |
| Marking | CE |
| Surge withstand | 1 kV differential mode conforming to IEC 61000-4-5 level 3 2 kV common mode conforming to IEC 61000-4-5 level 3 |
| Mounting support | Base mounted: socket Panel mounted: system supplied with the product |
| Local signalling | 1 LED (yellow) for output relay state LED indicator (green) for flashing: relay energised timing in progress LED indicator (green) for on steady: relay energised, no timing in progress |
| Net weight | 0.14 kg |

Environment

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| Humidity drift | +/- 0.05 %/%RH of the maximum setting value conforming to IEC 61812-1 |
| Immunity to microbreaks | 10 ms |
| Dielectric strength | 1 kV 1 mA/1 minute conforming to IEC 61812-1 |
| Protection against electric shocks | 4 kV class III conforming to IEC 60664-1 4 kV class III conforming to IEC 61812-1 |
| Standards | IEC 61812-1 EN 50081-1/2 93/68/EEC 89/336/EEC EN 50082-1/2 IEC 60669-2-3 73/23/EEC |
| Product certifications | GL UL CULus CSA C-Tick |
| Ambient air temperature for storage | -40...70 °C |
| Ambient air temperature for operation | -20...50 °C |
| IP degree of protection | IP40 (housing) conforming to IEC 60529 IP50 (front face) conforming to IEC 60529 |
| Vibration resistance | 0.35 mm (f= 10...55 Hz) conforming to IEC 60068-2-6 |
| Relative humidity | 93 % without condensation conforming to IEC 60068-2-3 |
| Resistance to electrostatic discharge | 6 kV in contact conforming to EN/IEC 61000-4-2 level 3 |

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| | 8 kV in air conforming to EN/IEC 61000-4-2 level 3 |
| Resistance to electromagnetic fields | 10 V/m 26 MHz to 1 GHz conforming to IEC 61000-4-3 level 3 |
| Resistance to fast transients | 2 kV (capacitive connecting clip) conforming to EN/IEC 61000-4-4 level 4 4 kV (direct) conforming to EN/IEC 61000-4-4 level 4 |
| Immunity to radioelectric fields | 10 V (0.15...80 MHz) conforming to EN/IEC 61000-4-6 level 3 |
| Immunity to voltage dips | 30 % / 10 ms conforming to EN/IEC 61000-4-11 60 % / 100 ms conforming to EN/IEC 61000-4-11 95 % / 5 s conforming to EN/IEC 61000-4-11 |
| Disturbance radiated/conducted | Class B 0.15...30 MHz conforming to EN 55022 (EN 55011 group 1) |

Packing Units

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| Package 1 Weight | 0.130 kg |
| Package 1 Height | 0.570 dm |
| Package 1 width | 0.600 dm |
| Package 1 Length | 1.050 dm |

Offer Sustainability

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| Sustainable offer status | Green Premium product |
| REACH Regulation | REACH Declaration |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |

Contractual warranty

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| Warranty | 18 months |
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Width 48 mm

Panel Cut-Out and Mounting

Panel Cut-Out

n Number of devices mounted side-by-side

Mounting

Cover positioning and mounting

- e Panel thickness
- 1 Protective cover
- 2 Panel mounting frame
- 3 Locating screw

Wiring Diagram

Function A : Power on Delay Relay

Description

The timing period T begins on energisation. After timing, the output R closes.

$$T = t1 + t2 + t3$$

Function B : Interval Relay with Control Signal

Description

After power-up, pulsing or maintaining control contact C starts the timing T. The output R closes for the duration of the timing period T then reverts to its initial state.

$$T = t1 + t2 + t3$$

Function C : Off-Delay Relay with Control Signal

Description

After power-up and closing of the control contact, the output closes. When control contact re-opens, timing T starts. At the end of the timing period, the output reverts to their initial state.

$$T = t1 + t2 + t3$$

Function Di : Symmetrical Flasher Relay (Starting Pulse On)

Description

Repetitive cycle with two timing periods T of equal duration, with output changing state at the end of each timing period T.

Legend

Relay de-energised
Relay energised
Output open
Output closed

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| 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 |