## Translation

 of the original instructions

Function Diagram


## Circuit Diagram



AA 7512.32

## Your Advantage

- Non sensitive to electromagnetical influence by pneumatic time element


## Features

- Power ON-delay relay according to EN 61812-1
- Delay up to 180 s
- Repeat accuracy $< \pm 5 \%$
- 1 changeover contact delayed, 1 changeover contact without delay
- Width 45 mm


## Approvals and Markings



## Applications

Time dependent controls

## Function

With the on-delayed timer AA 7512 the delay is achieved by a pair of bellows that is compressed by a magnet system. With an adjustable regulating system the time for the expansion of the bellows is defined. The bellow then operates the switch contacts.

## Connection Terminals

| Terminal designation | Signal description |
| :--- | :--- |
| A 1 | $\mathrm{~L} /+$ |
| A2 | $\mathrm{N} /-$ |
| $15,16,18$ | Changeover contacts delayed |
| $21,22,24$ | Changeover contacts not delayed |

## Notes

For the DC-version the mounting distance should not be smaller than 8 mm .

| Technical Data |  |  | Technical Data |  |
| :---: | :---: | :---: | :---: | :---: |
| Time circuit |  |  | Degree of protection Housing: | IP 40 IEC/EN 60529 |
| Time ranges: | $0.2 \ldots 30 \mathrm{~s} \quad 0.2 \ldots 180 \mathrm{~s}$ |  | Terminhhals: | IP 10 IEC/EN 60529 |
| Time setting: | Infinitely |  | Housing: | Thermoplast with Vo-behaviour |
| Repeat accuracy: |  |  |  | according to UL subject 94 |
| Min. transition time: Temperature influence: | $0.5 \% / K$ |  | Vibration resistance: | frequency $10 \ldots 55 \mathrm{~Hz}$ |
|  | under certain circumsances, variation and temperature errors can be added. |  | Climate resistance: | The device is only to be used in dry rooms, in closed switch cabinets or switch boxes |
|  |  |  | Terminal arrangement: Terminal designation: Wire connection: | DIN 46199-5 |
| Input |  |  |  | EN 50005 |
| Nominal voltage $\mathrm{U}_{\mathrm{N}}$ : | AC 24, 42, 110, 127, 230, 240 V 50 or 60 Hz |  |  | $2 \times 1.5 \mathrm{~mm}^{2}$ stranded wire with sleeve DIN 46228-1/-2/-3/-4 |
| Voltage range: | $\begin{aligned} & \text { AC } 0.85 \ldots 1.1 U_{N} \\ & \text { DC } 0.8 \ldots 1.1 U_{N} \end{aligned}$ |  | Wire fixing: | Flat terminals with self-lifting clamping piece IEC/EN 60999-1 |
| Nominal consumption: | Initial position | Active position | Fixing torque: | 0.8 Nm |
|  | 22 VA | 7 VA | Mounting: | DIN rail IEC/EN 60715 |
|  | 5.5 W | 5.5 W | Weight: |  |
| Nominal frequency: | 50 Hz |  | AC: | 270 g |
|  |  |  | DC: | 310 g |
| Output |  |  |  |  |
|  |  |  | Dimensions |  |
|  |  |  |  | $45 \times 77 \times 124 \mathrm{~mm}$ |
| AA 7512.32: | 1 changeover contact, without delay 1 changeover contact, delayed |  | Width x height x depth: |  |
| Contact material: <br> Measured nominal voltage: | AgNi |  | Standard Type |  |
|  | AC 250 V |  |  |  |  |
| Operate time of contacts: | < 50 ms |  |  |  |
| Release time of contacts: | $<25 \mathrm{~ms}$ |  | AA 7512.32 AC $230 \mathrm{~V} 50 \mathrm{~Hz} 0.2 \ldots 30 \mathrm{~s}$ Article number: 0009429 |  |
| Thermal current $\mathrm{I}_{\text {the }}$ : | 4 A |  | - Output: | 1 changeover contact, instantaneous |
| Nominal breaking capacity | AC 110 V | 230 V |  | 1 changeover contact, delayed |
| $\operatorname{Cos} \varphi 1 \ldots 0.7$ : | 2 A | 2 A | - Nominal voltage $\mathrm{U}_{\mathrm{N}}$ : <br> - Time range: | AC 230 V |
| $\operatorname{Cos} \varphi$ 0.4: | 1 A | 1 A |  | $0.2 \ldots 30 \mathrm{~s}$ |
|  | DC 110 V | 220 V | - Width: |  |
| Ohmic: | 0.25 A | 0.25 A |  |  |
| Inductive: <br> Electrical life: | $0.03 \mathrm{~A} \quad 0.02 \mathrm{~A}$ |  | Variant |  |
|  |  |  |  |  |  |
|  | at $30 \%$ of the switching capacity $0.8 \times 10^{6}$ switching cycles |  | AA 7512.32/001: | DC-version, as option: <br> DC 12, 24, 42, 48, 110, 220 V , <br> DC 12 ... 220 V |
|  | 1000 switches/hat $50 \%$ of the switching capacity |  | Ordering example for variant |  |
|  | $0.3 \times 10^{6}$ switching | cles |  |  |  |
|  | 500 switches/h at $100 \%$ of the switching capacity |  | AA 7512 . $32 / 001$ DC 24 V | $180$ |
| Permissible switching frequency: | 1500 switching cy |  |  | - Time range |
| Short circuit strength |  |  |  | Variant, if required |
| Max. fuse rating: | $2 \mathrm{AgG} / \mathrm{gL}$ | IEC/EN 60947-5-1 |  | Contacts |
| Mechanical life: | $>3 \times 10^{6}$ switching | cles |  | Type |
| General Data |  |  |  |  |
| Operating mode: | Continuous operation |  |  |  |
| Temperature range |  |  |  |  |
| Operation: | $-10 \ldots+55^{\circ} \mathrm{C}$ |  |  |  |
| Storage: | $\begin{aligned} & -10 \ldots+55^{\circ} \mathrm{C} \\ & \leq 2000 \mathrm{~m} \end{aligned}$ |  |  |  |
| Altitude: |  |  |  |  |
| Clearance and creepage distances |  |  |  |  |
| Rated impulse voltage / |  |  |  |  |
| EMC |  |  |  |  |
| Electrostatic discharge: | 8 kV (air) | IEC/EN 61000-4-2 |  |  |
| HF-irradiation: | $10 \mathrm{~V} / \mathrm{m}$ | IEC/EN 61000-4-3 |  |  |
| Fast transients: | 2 kV | IEC/EN 61000-4-4 |  |  |
| Surge voltages |  |  |  |  |
| Between |  |  |  |  |
| wires for power supply: | 1 kV | IEC/EN 61000-4-5 |  |  |
| Between wire and ground: | 2 kV | IEC/EN 61000-4-5 |  |  |
| HF-wire guided: | 10 V | IEC/EN 61000-4-6 |  |  |
| Interference suppression: | Limit value class B | EN 55011 |  |  |

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