

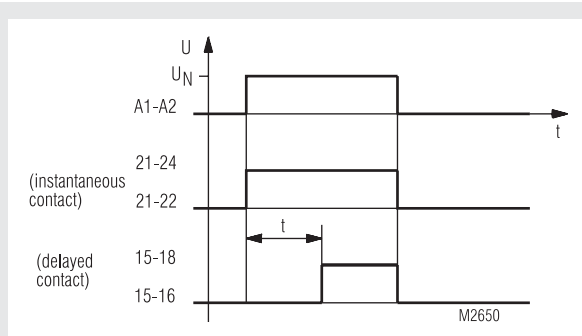
Time control technique

Time relay AA 7512, operate delay minitimer

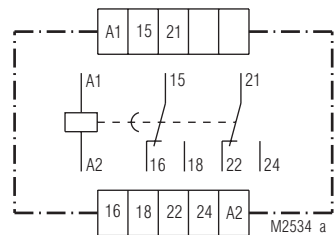


- According to IEC/EN 61 812-1
- Delay up to 180 s
- Repeat accuracy <math>< \pm 5 \%</math>
- without auxiliary voltage
- 1 changeover contact delayed, 1 changeover contact without delay
- Width 45 mm

Function diagram



Circuit diagram



AA 7512.32

Approvals and marking



Notes

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

Technical data

Time circuit

Time ranges:	0,2 ... 30 s	0,2 ... 180 s
Time setting:	infinitely	
Repeat accuracy:	$\leq \pm 5 \%$ of the final range value	
Min. transition time:	25 ms	
Temperature influence:	0,5 % / K	
	under certain circumstances, variation and temperature errors can be added.	

Input

Nominal voltage U_N:	AC 24, 42, 110, 127, 230, 240 V	
	50 or 60 Hz	
Voltage range:	AC 0,85 ... 1,1 U_N	
	DC 0,8 ... 1,1 U_N	
Nominal consumption:	Initial position	Active position
	22 VA	7 VA
	5,5 W	5,5 W
Nominal frequency:	50 Hz	

Output

Contacts

AA 7512.32:	1 changeover contact, without delay	
	1 changeover contact, delayed	
Operate time of contacts:	< 50 ms	
Release time of contacts:	< 25 ms	
Thermal current I_{th}:	4 A	
Nominal breaking capacity	AC 110 V	AC 230 V
$\cos \varphi 1 \dots 0,7$:	2 A	2 A
$\cos \varphi 0,4$:	1 A	1 A
	DC 110 V	DC 220 V
ohmic:	0,25 A	0,25 A
inductive:	0,03 A	0,02 A
Electrical life:	1,2 x 10 ⁶ switching cycles	
	1 500 switches/h	
	at 30 % of the switching capacity	
	0,8 x 10 ⁶ switching cycles	
	1 000 switches/h	
	at 50 % of the switching capacity	
	0,3 x 10 ⁶ switching cycles	
	500 switches/h	
	at 100 % of the switching capacity	

Technical data

Permissible switching frequency:	1 500 switching cycles / h
Short circuit strength max. fuse rating:	2 A gL IEC/EN 60 947-5-1
Mechanical life:	> 3 x 10 ⁶ switching cycles

General data

Operating mode:	Continuous operation
Temperature range:	- 10 ... + 55 °C
Clearance and creepage distances	
overvoltage category / contamination level:	4 kV / 2 IEC 60 664-1
EMC	
Electrostatic discharge:	8 kV (air) IEC/EN 61 000-4-2
HF-irradiation:	10 V/m IEC/EN 61 000-4-3
Fast transients:	2 kV IEC/EN 61 000-4-4
Surge voltages between wires for power supply:	1 kV IEC/EN 61 000-4-5
between wire and ground:	2 kV IEC/EN 61 000-4-5
HF-wire guided:	10 V IEC/EN 61 000-4-6
Interference suppression:	Limit value class B EN 55 011
Degree of protection	
Housing:	IP 40 IEC/EN 60 529
Terminals:	IP 10 IEC/EN 60 529
Housing:	Thermoplast with V0-behaviour according to UL subject 94
Vibration resistance:	Amplitude 0,35 mm IEC/EN 60 068-2-6 frequency 10 ... 55 Hz
Climate resistance:	The device is only to be used in dry rooms, in closed switch cabinets or switch boxes.
Terminal arrangement:	DIN 46 199-5
Terminal designation:	EN 50 005
Wire connection:	2 x 2,5 mm ² solid or 2 x 1,5 mm ² stranded wire with sleeve DIN 46 228-1/-2/-3/-4
Wire fixing:	Flat terminals with self-lifting clamping piece IEC/EN 60 999-1
Mounting:	DIN rail IEC/EN 60 715
Weight:	
AC:	270 g
DC:	310 g

Dimensions

Width x height x depth: 45 x 77 x 124 mm

Standard type

AA 7512.32 AC 230 V 50 Hz 0,2 ... 30 s	
Article number:	0009429 stock item
• Output:	1 changeover contact, instantaneous 1 changeover contact, delayed
• Nominal voltage U _N :	AC 230 V
• Time range:	0,2 ... 30 s
• Width:	45 mm

Variant

AA 7512.32/001:	DC-version, as option: DC 12, 24, 42, 48, 110, 220 V, DC 12 ... 220 V
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Ordering example for variants

AA 7512 .32 / 001 DC 24 V 180 s	
_____	Time range
_____	Nominal voltage
_____	Variant, if required
_____	Contacts
_____	Type