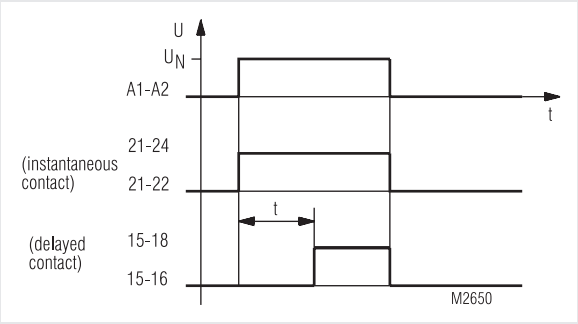
MINITIMER
Timer, On Delayed
AA 7512

0232905

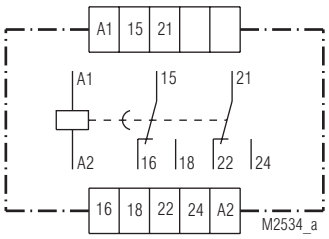
Your Advantage
- Non sensitive to electromagnetical influence by pneumatic time element

Features
- According to IEC/EN 61 812-1
- Delay up to 180 s
- Repeat accuracy < ± 5 %
- 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

CE

Application

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.

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:	≤ ± 5 % of the final range value	
Min. transition time:	25 ms	
Temperature influence:	0.5 % / K under certain circumsances, 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	

Technical Data

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 φ 1 ... 0.7:	2 A	2 A
cos φ 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	
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		
rated impuls voltage / pollution degree:	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
Terminhhals:	IP 10	IEC/EN 60 529
Housing:	Thermoplast with V0-behaviour according to UL subject 94	
Vibration resistance:	Amplitude 0.35 mm frequency 10 ... 55 Hz	IEC/EN 60 068-2-6
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 mm² solid or 2 x 1.5 mm² 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

Ordering example for variant