Subminiature Relays Type ZFH A Monostable





- Subminiature relay
- dual-in-line-terminals
- Switching capacity 1 A
- DC coils 4.5 to 48 VDC
- 2 change over contacts
- General purpose, industrial electronics
- Standard as sealed
- · Ultra high sensitivity
- · Low profile and light weight
- · High reliability
- UL / CSA approved

Product Description

Miniature relay with low power consumption provided with two change over bifurcated contacts; it is sealed particularly designed for telecomunication/ telephone applications and low load level switching.

Type Version (A = Standard) Contact code Coil rated voltage

Type Selection

Contact configuration		Contact rating	Contact code
2 change over contacts	(DPDT {2-form C})	1 A	002

Coil Characteristics, DC (20°C)

Datad	Min dia a	Operating range		NA
Rated voltage VDC	Winding Resistance $\Omega \pm 10\%$	Min. VDC	Max. VDC	Must release VDC
4.5	135	3.2	11.2	0.23
5.0	167	3.5	12.5	0.25
6.0	240	4.2	15.0	0.30
9.0	540	6.3	22.5	0.45
12.0	960	8.4	30.0	0.60
18.0	1620	12.6	40.0	0.90
24.0	2880	16.8	52.9	1.20
48.0	7680	33.6	84.9	2.40



Contact Characteristics

Rating	1 A	
Material (standard version)	AgPd - Au	
Initial contact resistance	100 m Ω max.	
Current Rated current Max Switching current Min. switching current	1 A 24 VDC/0,5 A-120 VAC 1 A 10 μA	
Voltage Rated voltage Max. switching power with resistive load Max switching voltage Min. switching voltage Min. switching power	24 VDC / 120 VAC 24 W/60 VA 60 VDC / 120 VAC 10 mV 0.5 mW	
Life Electrical life at 1A/24VDC resistive at 0.5A/120VDC resistive Mechanical life Max. switching frequency	5 x 10 ⁵ cycles 2 x 10 ⁵ cycles 20 x 10 ⁶ cycles 40 Hz	

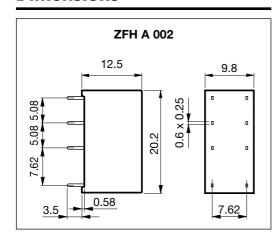
Insulation

Test voltage (1 min.) Open contact Contacts/coil Contacts of different polarity	1000 VAC 1000 VAC 1000 VAC
Insulation resistance at 500 VDC	> 1000 MΩ

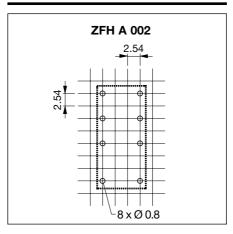
General Data

Max. Operating time at rated voltage (excl. bounces)	≤ 4.5 ms	
Max. Release time (excl. bounces)	≤ 1.5 ms	
Vibration resistance	1.5 mm p.p. 10 to 55 Hz	
Ambient temperature	-40 °C to +80 °C	
Shock resistance	10 G, 11 ms	
Weight	~ 4.5 g	
Working class / type of serv.	C / continuous	

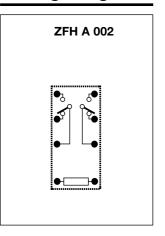
Dimensions



Pin View

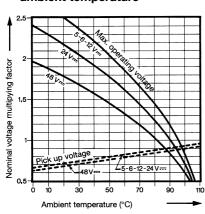


Wiring Diagram

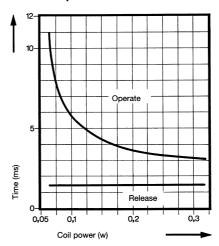


Diagrams

1 Operating voltage depending on ambient temperature



2 Operating time values depending on coil power



Approvals





U.S.A.

CANADA

The approvals stated are not generally applicable to all relay versions of a particular type.

For further information please apply for relevant data sheets ref. **3.84.00.10.X**