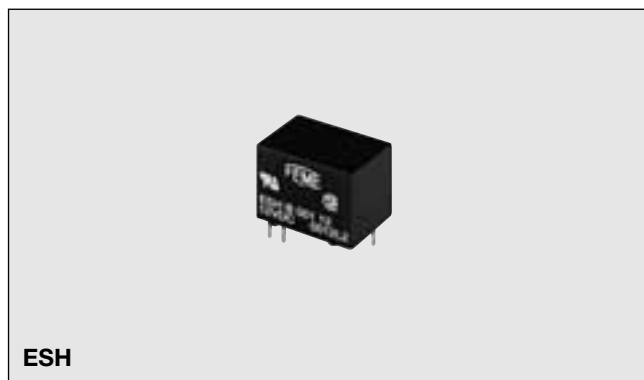


Subminiature Relays

Type ESH

Monostable

- Subminiature relay
- Dual-in-line terminals
- PCB mounting
- Switching capacity 2 A
- DC coils 1.5 to 24 VDC
- 1 change over contact
- General purpose, industrial electronics
- Standard as sealed
- UL / CSA approved

Product Description

Sealed according to IP 67, suitable for automatic soldering and immersion or spray washing. Serie ESH relays are a further low cost development in the miniaturization of electro-

mechanical components. They are ideally suited to applications in alarm systems, electronic toys, etc. High reliability and very small size.

Ordering Key

ESH B 001 12
Type
Version (B=Sensitive)

Contact code
Coil rated voltage

Type Selection

Contact configuration	Contact rating	Contact code
1 change over contact (SPDT {1-form C})	2 A	001

Coil Characteristics, DC (20°C)

Rated voltage VDC	Winding Resistance $\Omega \pm 10\%$	Operating range		Drop-out Voltage VDC
		Pick-up Voltage VDC	Max. VDC	
3	45	2.25	170% of rated voltage	0.3
5	120	3.75		0.5
6	180	4.50		0.6
9	400	6.75		0.9
12	700	9.00		1.2
24	2800	18.00	2.4	

Contact Characteristics

Rating	2 A
Material (standard version)	AgPd - Au overlay
Current (for AC) Rated current	1 A - 30 VDC 1 A - 120 VAC 2 A
Max switching current Min. switching current with resistive load	1 mA
Contact resistance	100 m Ω (1 A - 24 VDC)
Voltage Rated voltage Max. switching voltage Min. switching voltage Max. switching power with resistive load	30 VDC / 120 VAC 60 VDC / 120 VAC 80 mV 30 W / 60 VA
Life Expected life at at 1 A / 30 VDC resistive at 1 A / 120 VAC resistive Mechanical life	1 x 10 ⁵ cycles 1 x 10 ⁵ cycles 1 x 10 ⁷ cycles

Subminiature Relays
Type ESH
Monostable



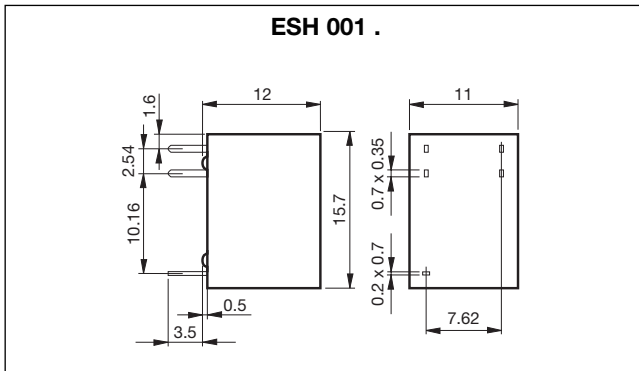
Insulation

Test voltage (1 min.) Contacts/coil Contact/contact	500 VAC 500 VAC
Insulation resistance at 500 VDC	> 100 MΩ

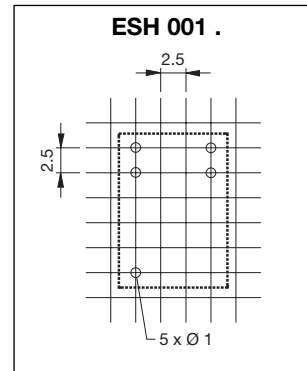
General Data

Operating time at rated voltage (excl. bounces)	≤ 10 ms
Release time	≤ 5 ms
Vibration resistance	1.5 mm p.p. 10 to 25 Hz 1.5 G, 10 ~ 55 Hz
Ambient temperature	-25 °C to +55 °C
Shock resistance malfunction mechanical	98 m/s² 980 m/s²
Weight	~ 3.4 g
Working class / type of serv.	C / continuous

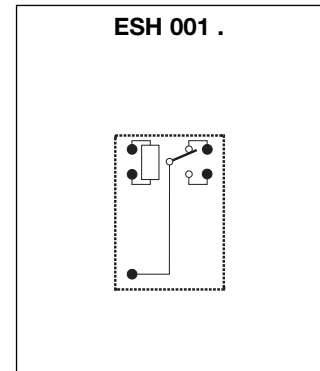
Dimensions



Pin View

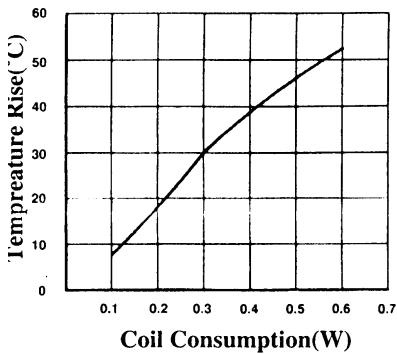


Wiring Diagram

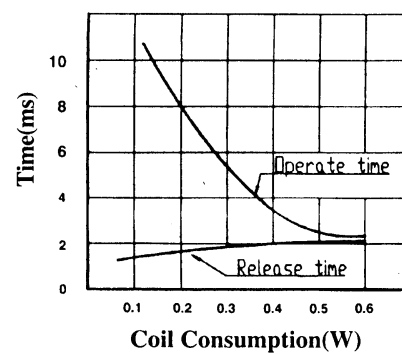


Diagrams

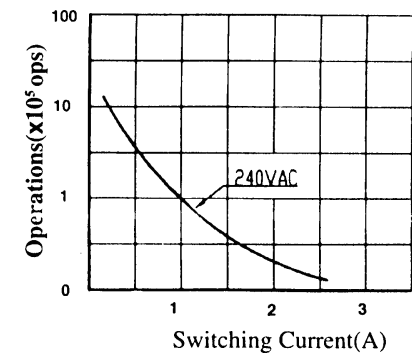
1 Temperature Rise



2 Operating / Release Time



3 Life Curve



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**