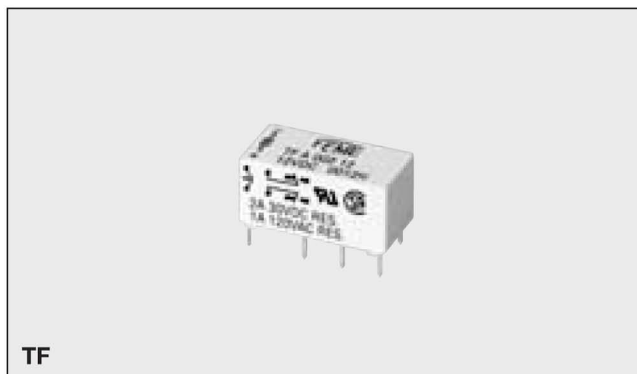


Subminiature Relays

Type TF

Monostable



- Subminiature relay
- Dual-in-Line terminals
- Switching capacity 2 A
- DC coils 5 to 24 VDC
- 2 change over contacts
- General purpose, industrial electronics
- Types: Sealed as standard
- Low profile and light weight
- High reliability
- UL / CSA approved

TF

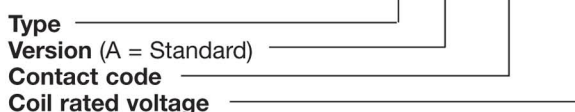
Product Description

Miniature relay with low power consumption, polarized, with two change over bifurcated contacts. It is sealed, particularly designed for

telecommunication, telephone applications, and low load level switching. Conforming to FCC standard of USA.

Ordering Key

TF A 002 12



Type Selection

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

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	
5.0	167	4.0	180% of rated voltage	0.5
6.0	240	4.8		0.6
9.0	540	6.1		0.9
12.0	960	8.1		1.2
15.0	1500	12.0		1.5
24.0	3840	19.2		2.4

Contact Characteristics

Rating	2 A
Material (standard version)	Silver alloy gold clad
Current	
Rated current	2 A 30 VDC 1 A 125 VAC 100 µA
Min. switching current	
Max. switching current with resistive load	2 A
Max. carrying current with resistive load	5 A
Max. switching power with resistive load	60 W / 125 VA
Voltage	
Rated voltage	30 VDC / 125 VAC
Max. switching voltage with resistive load	220 VDC / 250 VAC
Min. switching voltage	10 mV
Min. switching power	1 mW
Life	
Electrical life	
1A 30VDC resistive	5 x 10⁵ cycles
2A 30VDC resistive	1 x 10⁵ cycles
Mechanical life	1 x 10⁸ cycles
Max. switching frequency	40 Hz

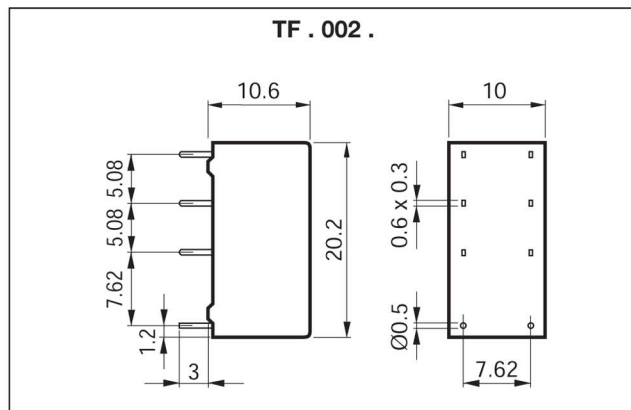
Insulation

Test voltage (1 min.)	
Open contact	1000 VAC
Contacts/coil	1500 VAC
Insulation resistance at 500 VDC	> 1000 MΩ

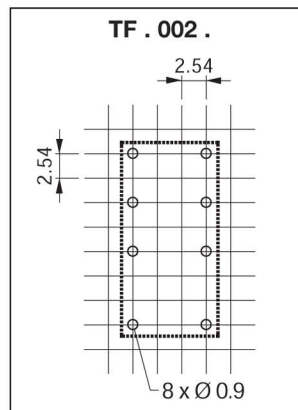
General Data

Max. Operating time at rated voltage (excl. bounces)	≤ 4 ms
Max. Release time (excl. bounces)	≤ 3 ms
Vibration resistance	196 m/s² (20 g) 10 to 55 Hz
Ambient temperature	-40 °C to +85 °C
Shock resistance	
functional	490 m/s² (50 g)
destructive	980 m/s² (100 g)
Weight	~ 3.7 g
Working class / type of serv.	C / continuous

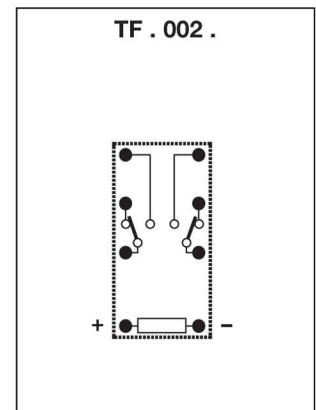
Dimensions



Pin View

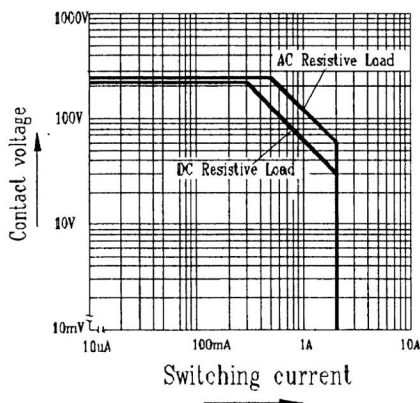


Wiring Diagram

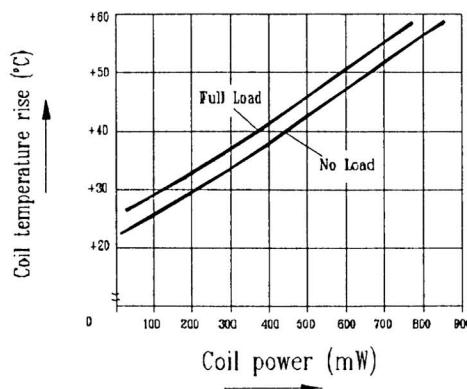


Diagrams

1 Maximum Switching Power



2 Coil temperature rise



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**