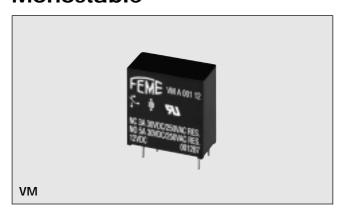
Subminiature Relays Type VM Monostable





- · Subminiature relay
- Switching capacity up to 5 A
- DC coils 5 to 48 VDC
- 1 normally open and 1 change over contact
- · General purpose, industrial electronics
- Sealed as standard
- · UL, cUL approved

Product Description

Sealed according to IP 67, suitable for automatic soldering and immersion or spray washing.

Low cost miniature VM series

relay, suitable for many applications of industrial controls, as timers, alarms energy saving devices, motors etc.

Ordering Key	VM A 001 12
Type Version (A=Standard) ——Contact code Coil rated voltage	

Type Selection

Contact configuration		Contact rating	Contact code
1 change over contact	(SPDT {1-form C})	5 A	001

Coil Characteristics, DC (20°C)

Rated voltage VDC	Winding Resistance Ω ±10%	Operatir Pick-up voltage VDC	ng range Max. VDC	Drop-out voltage VDC
5 6 9 12 18 24 48	69 100 225 400 900 1600 6400	3.5 4.2 6.3 8.4 12.6 16.8 33.6	130% of rated voltage	0.25 0.30 0.45 0.60 0.90 1.20 2.40

Contact Characteristics

Rating	5 A
Material (standard version) Initial contact resistance	Silver alloy 100 mΩ (6VDC-1A)
Current Rated current with res. load Rated current ($\cos \phi = 0.4$) Min. switching current	5 A 2.5 A 100 mA
Initial contact resistance	100 mΩ (1A - 6VDC)
Voltage Rated voltage Max. switching power (cosφ=1) Max. switching power (cosφ=0.4) Min. switching power with resistive load (typical value)	250 VAC / 30VDC 1250 VA / 150 W 625 VA / 75 W 100 mA at 5 VDC
Life Electrical life at 5 A / 250 VAC resistive Mechanical life	10 ⁵ cycles 1 x 10 ⁷ cycles



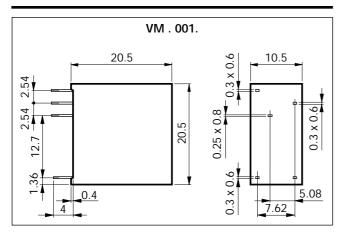
Insulation

Test voltage (1 min.) Open contact Contacts/coil	750 VAC 2000 VAC
Insulation resistance at 500 VDC	> 1000 MΩ

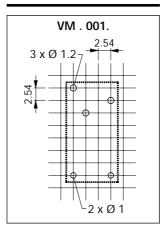
General Data

Operating time at rated voltage (excl. bounces)	≤ 10 ms
Release time	, -
(excl. bounces)	≤ 5 ms
Vibration resistance	3.3 mm p.p. 10 to 55 Hz
Ambient temperature	-40 °C to +85 °C
Shock resistance	
functional	100 m/s ²
destructive	500 m/s ²
Weight	~ 8 g
Working class / type of serv.	C / continuous

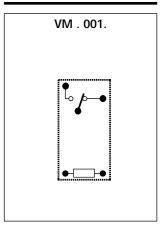
Dimensions



Pin View

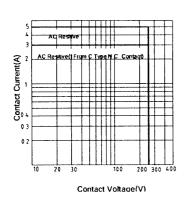


Wiring Diagram

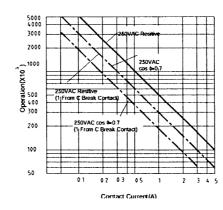


Diagrams

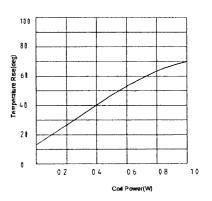
1 Maximum Switch Power



2 Life Curve



3 Coil Temperature Rise



Approvals



. R.

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**