

Miniature Relays Series M25

Type M25 - 1 pole 12 A

Monostable



- Miniature size 15.7 mm
- PCB mounting
- 5 kV / 10 mm insulation
- Switching capacity 12 A / 250 VAC
- General purpose, industrial electronics
- Sealed according IP 67
- Low coil power consumption

Product Description

Miniature PCB power relay.
low profile execution.
IP 67 as standard

Ordering Key

M25 A 001 24 12

Type _____
Version _____
Contact code _____
Coil rated voltage _____
VDC = Direct voltage
Contact rating _____

Approvals



Version
A = Ag CdO 3.5 mm (Standard)
S = Ag SnO₂ 3.5 mm
C = Ag Ni+Au3.5μ 3,5mm
B = Ag CdO 5 mm
T = Ag SnO₂ 5 mm

Type selection

Contact configuration	Contact rating	Contact code
1 change over contact (SPDT-CO {1-form C})	12 A	001

Coil Data, DC (20°C)

Rated voltage VDC	Winding resistance Ω±10%	Operating range		Drop-out voltage (must release) VDC	Rated power consumption mW
		Pick-up voltage VDC	max VDC		
5	62	3.5	≥ 150% of rated voltage	0.5	400
6	90	4.2		0.6	400
12	360	8.4		1.2	400
24	1440	16.8		2.4	400
48	5760	33.6		4.8	400
60	7500	42.0		6.0	400
110	25200	77.0		11.0	400

Contact Characteristics

Material	Ag CdO - Ag SnO ₂ Ag Ni+Au3.5μ	Power	4000 VA
Current Rated switching current with resistive load	12 A	Max. switching power (with resistive load) Min. switching current (typical value)	
Voltage Rated voltage Max switching voltage Initial contact resistance	250 VAC 440 VAC Ag CdO-50 mΩ (1A 6VDC) Ag SnO ₂ -50 mΩ (1A 6VDC)	Life Electrical life at 12 A / 250 VCA - cosφ 1 Mechanical life	1x10 ⁵ cicli (360 op.h) 1 x 10 ⁷ cycles (72000 op.h)

Special Versions

	Contacts	AC1 250 VAC	AC 15 250 VAC	DC13 24 VDC
M25 A/B 001 12A	Ag CdO	12 A	3.5 A	1.8 A
M25 S/T 001 12A	AgSnO ₂	12 A	4.5 A	2.5 A

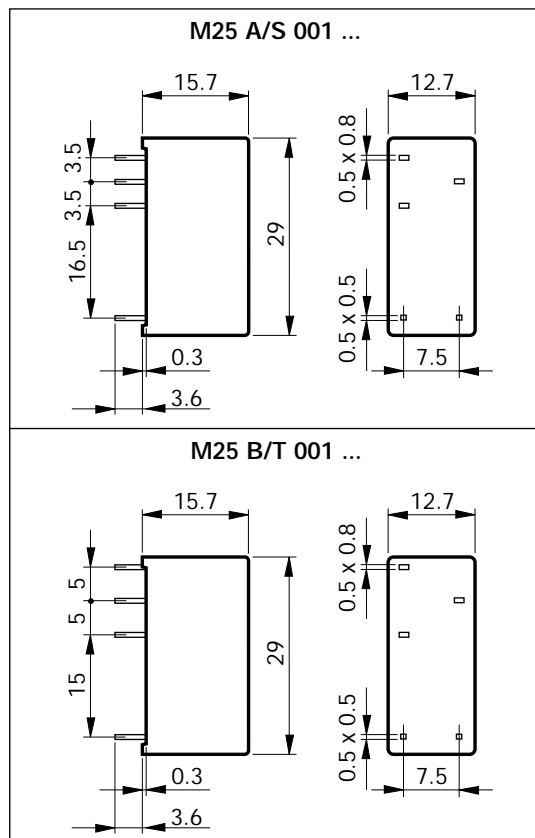
Insulation

Test voltage (1 min.) Open contacts	1000 VAC
Coil/contacts - ground	5000 VAC
Air and surface gap	≥10 mm
Insulation group (VDE 0110)	C 250 - B 400
Insulation resistance 500 VCC	>10 ⁴ MΩ

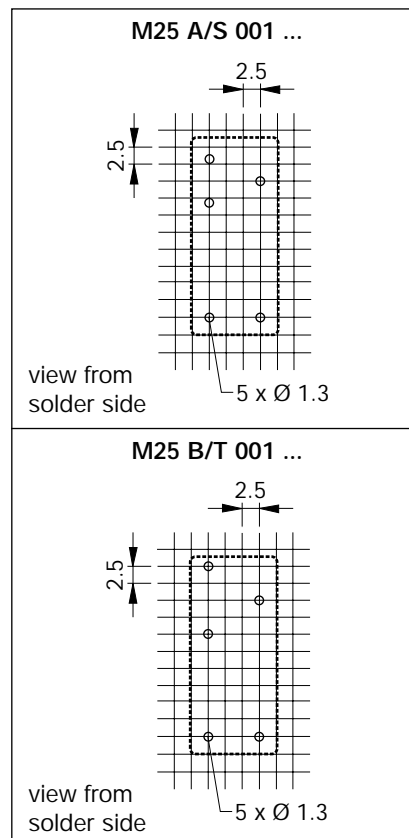
General Data

Operating time at rated voltage (excl. bounces)	7 ms
Release time (excl. bounces)	3 ms
Ambient temperature (at rated voltage)	-40°C a + 70 °C
Inside protection (IEC 144)	IP67
Working class type of service	C/Continuous
Soldering bath temperature	260 °C max.
Soldering time	5 s max.
Weight	13,5 g ~

Dimensions



Pin View



Wiring Diagrams

