

Miniature Relays Series M25

Type M25 - 1 pole 16 A

Monostable



CARLO GAVAZZI



- Miniature size 15.7 mm
- PCB mounting
- 5 kV / 10 mm insulation
- Switching capacity 16 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 16

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

Approvals



Version
A = Ag CdO (Standard)
S = Ag SnO₂

Type selection

Contact configuration	Contact rating	Contact code
1 change over contact (SPDT-CO {1-form C})	16 A	001

Coil Characteristics, DC (20°C)

Rated voltage VDC	Winding resistance $\Omega \pm 10\%$	Operating range		Drop-out voltage (must release) VDC	Rated power consumption mW
		Pick-up voltage VDC	max VDC		
5,0	62	3,5	≥ 150% of rated voltage	0,5	400
6,0	90	4,2		0,6	400
12,0	360	8,4		1,2	400
24,0	1440	16,8		2,4	400
48,0	5760	33,6		4,8	400
60,0	7500	42,0		6,0	400
110,0	25200	77,0		11,0	400

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Contact Characteristics

Material	Ag CdO - Ag SnO ₂	Power	
Current		Max. switching power (with resistive load)	4000 VA
Rated switching current with resistive load	16 A	Min. switching current (typical value)	100 mA at 24 V
Voltage		Electrical life	
Rated voltage	250 VAC	250 VAC - 16 A - cosφ 1	1x10 ⁵ cycles (360 op.h)
Max switching voltage	440 VAC	Mechanical life	1 x 10 ⁷ cycles (72000 op.h)
Initial contact resistance	Ag CdO-50 mΩ (1A 6VDC)		

Special Versions

	Contacts	AC1 250 VAC	AC 15 250 VAC	DC13 24 VDC
M25 A 001 16A	Ag CdO	16 A	4 A	2 A
M25 S 001 16A	AgSnO ₂	16 A	5 A	3 A

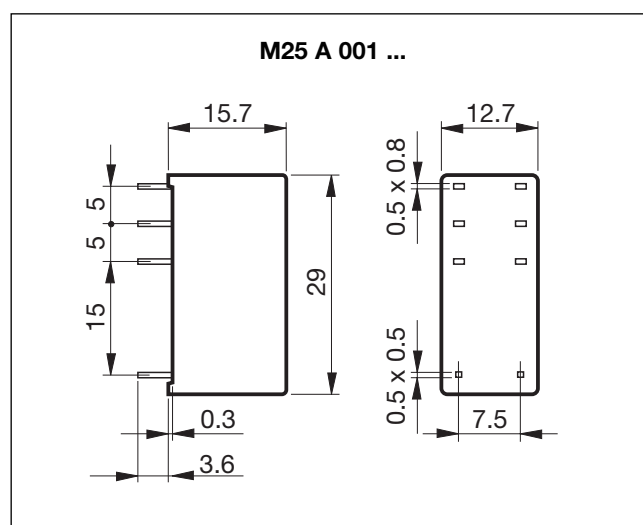
Insulation

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

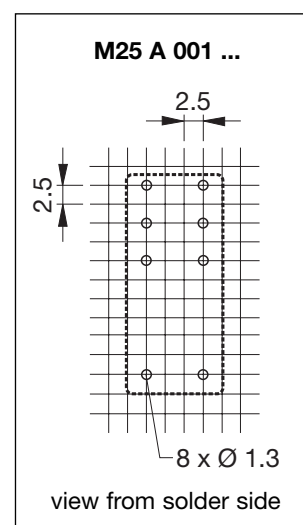
General Data

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 ~

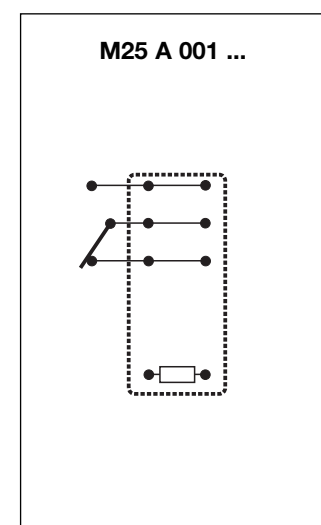
Dimensions



Pin View



Wiring Diagram



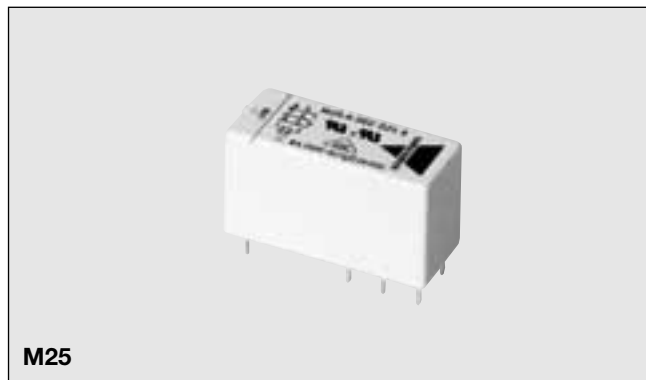
Miniature Relays Series M25

Type M25 - 2 poles 8 A

Monostable



CARLO GAVAZZI



- Miniature size 15.7 mm
- PCB mounting
- 5 kV / 10 mm insulation
- Switching capacity 8 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 002 24 08

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

Approvals



Version
A = Ag CdO (Standard)
S = Ag SnO₂

Type selection

Contact configuration	Contact rating	Contact code
2 change over contacts (DPDT-CO {2-form C})	8 A	002

Coil Characteristics, DC (20°C)

Rated voltage VDC	Winding resistance $\Omega \pm 10\%$	Operating range		Drop-out voltage (must release) VDC	Rated power consumption mW
		Pick-up voltage VDC	max VDC		
5,0	62	3,5	≥ 150% of rated voltage	0,5	400
6,0	90	4,2		0,6	400
12,0	360	8,4		1,2	400
24,0	1440	16,8		2,4	400
48,0	5760	33,6		4,8	400
60,0	7500	42,0		6,0	400
110,0	25200	77,0		11,0	400

Miniature Power Relays Series M25
Type M25 - 2 poles 8 A
Monostable

CARLO GAVAZZI

Contact Characteristics

Material	Ag CdO - Ag SnO ₂	Power	
Current		Max. switching power (with resistive load)	4000 VA
Rated switching current with resistive load	8 A	Min. switching current (typical value)	100 mA at 24 V
Voltage		Electrical life	
Rated voltage	250 VAC	250 VAC - 16 A - cosφ 1	1x10 ⁵ cycles (360 op.h)
Max switching voltage	440 VAC	Mechanical life	1 x 10 ⁷ cycles (72000 op.h)
Initial contact resistance	Ag CdO-50 mΩ (1A 6VDC)		

Special Version

	Contacts	AC1 250 VAC	AC 15 250 VAC	DC13 24 VDC
M25 A 002 8A	Ag CdO	8 A	2 A	1.5 A
M25 S 002 8A	AgSnO ₂	8 A	3 A	2 A

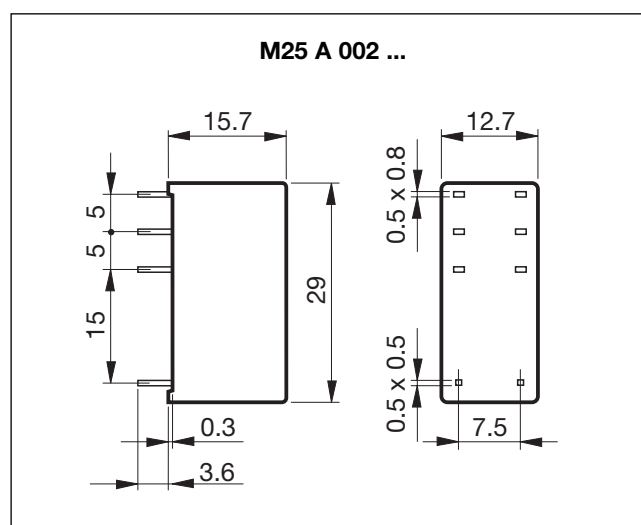
Insulation

Test voltage (1 min.)	
Open contacts	1000 VAC
Coil/contacts - ground	5000 VAC
Contacts of different polarity	2500 VAC
Air and surface gap	≥10 mm
Insulation group (VDE 0110)	C 250 - B 400
Insulation resistance 500 VDC	>10 ⁴ MΩ

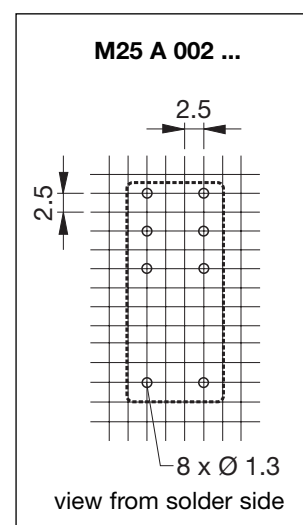
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Wiring Diagram

