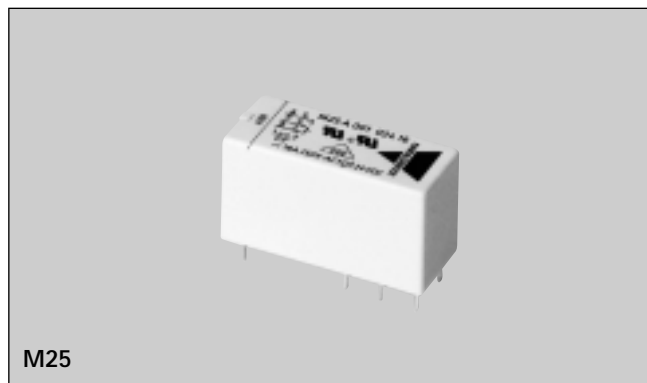


Miniature Relays Series M25

Type M25 - 1 pole 16 A

Monostable



- 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

Approvals

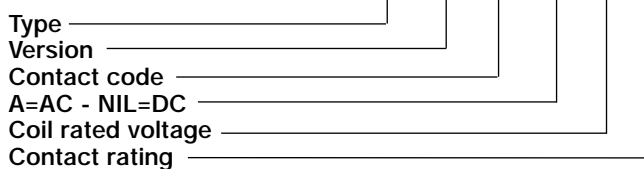


Type selection

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

Ordering Key

M25 A 001 A 24 16



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

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		
5.0	62	3.5	≥ 150% of rated voltage	0.5	400
6.0	90	4.2		400	
12.0	360	8.4		400	
24.0	1440	16.8		400	
48.0	5760	33.6		400	
60.0	7500	42.0		400	
110.0	25200	77.0		11.0	400

Coil Data, AC 50/60Hz Version (20°C)

Rated voltage VAC	Winding resistance Ω±10%	Operating range		Drop-out voltage (must release) U _n	Rated power consumption VA
		min VAC	max VAC		
24	400	19.2	26.4	0.15	0.75
48	1500	38.4	52.8	0.15	0.75
60	2600	48.0	66.0	0.15	0.75
110	8900	88.0	121.0	0.15	0.75
115	9600	92.0	126.5	0.15	0.75
120	10200	96.0	132.0	0.15	0.75
220	35500	176.0	242.0	0.15	0.75
230	38500	184.0	253.0	0.15	0.75
240	42500	192.0	264.0	0.15	0.75

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	1x10 ⁵ cycles (360 op.h)
Rated voltage	250 VAC	250 VAC - 16 A - cosφ 1	1 x 10 ⁷ cycles (72000 op.h)
Max switching voltage	440 VAC	Mechanical life	
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

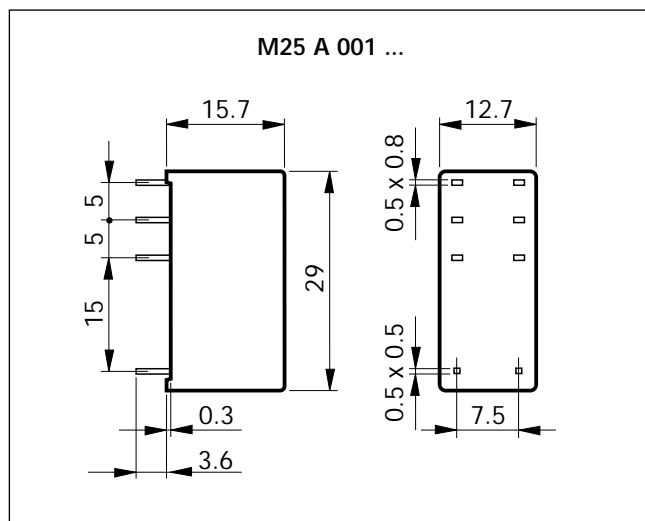
Insulation

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

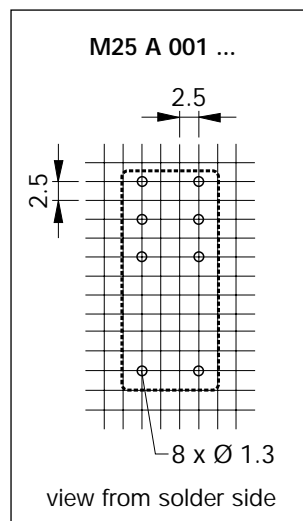
General Data

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 ~

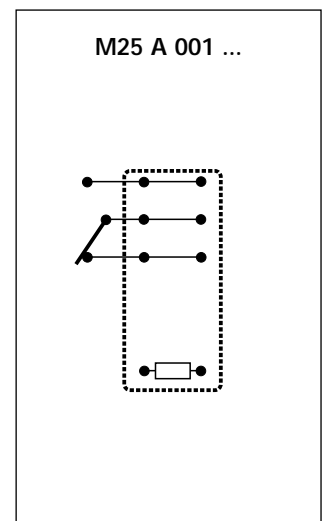
Dimensions



Pin View



Wiring Diagram



Miniature Relays Series M25

Type M25 - 1 pole 12 A

Monostable

CARLO GAVAZZI



- 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 Ni 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

1 change over contact (SPDT-CO {1-form C})

Contact rating

12 A

Contact code

001

Coil Data, 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	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 100 mA at 24 V
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

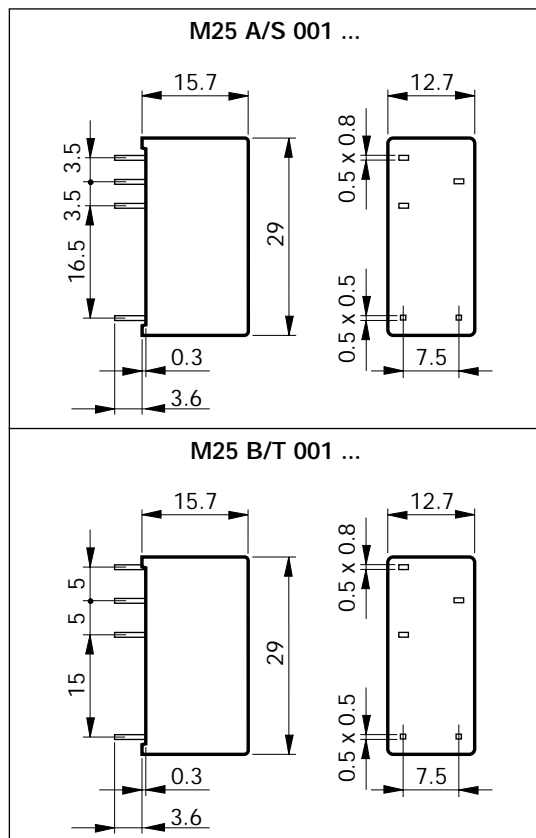
Insulation

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

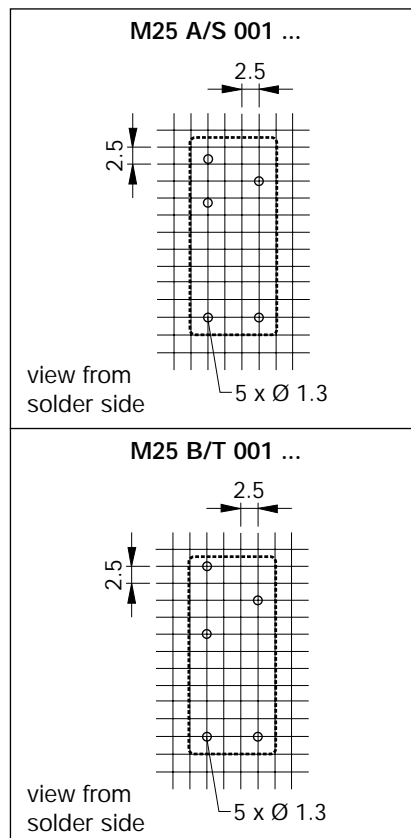
General Data

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 ~

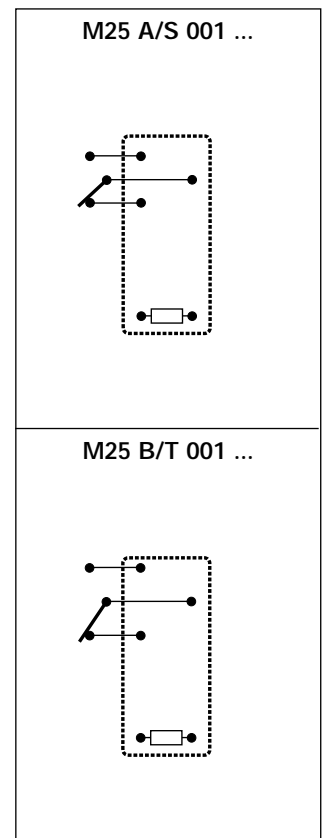
Dimensions



Pin View



Wiring Diagrams

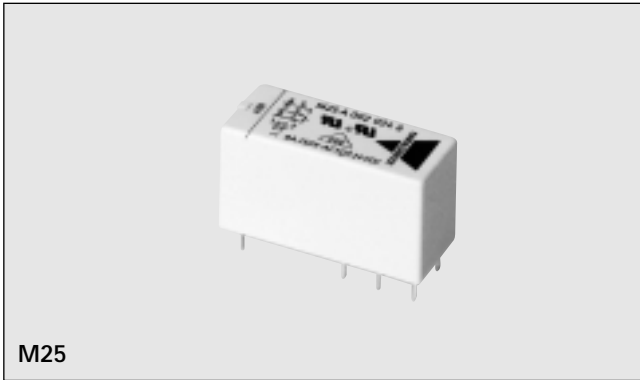


Miniature Relays Series M25

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 A 24 08

Type _____
Version _____
Contact code _____
A=AC - NIL=DC _____
Coil rated voltage _____
Contact rating _____

Version

A = Ag CdO (Standard)
C = Ag Ni10 + Au 3.5μ
G = Ag Ni10
S = Ag SnO₂

Approvals



Type selection

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

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		
5.0	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

Coil Data, AC 50/60Hz Version (20°C)

Rated voltage VAC	Winding resistance Ω±10%	Operating range		Drop-out voltage (must release) U _n	Rated power consumption VA
		min VAC	max VAC		
24	400	19.2	26.4	0.15	0.75
48	1500	38.4	52.8	0.15	0.75
60	2600	48.0	66.0	0.15	0.75
110	8900	88.0	121.0	0.15	0.75
115	9600	92.0	126.5	0.15	0.75
120	10200	96.0	132.0	0.15	0.75
220	35500	176.0	242.0	0.15	0.75
230	38500	184.0	253.0	0.15	0.75
240	42500	192.0	264.0	0.15	0.75

Contact Characteristics

Material	A Version C Version G Version S Version	Ag CdO Ag Ni 90/10 + Au 3.5μ Ag Ni 90/10 Ag SnO ₂	Initial contact resistance (Ag SnO ₂)	< 100 mΩ (1A 6VDC)
Current			Power	
Rated switching current with resistive load		8 A	Max. switching power (with resistive load)	4000 VA
Voltage			Min. switching current (typical value)	100 mA at 24 V
Rated voltage		250 VAC	Electrical life	
Max switching voltage		440 VAC	250 VAC - 16 A - cosφ 1	1x10 ⁵ cycles (360 op.h)
Initial contact resistance (Ag CdO AgNi AgNi+Au)		50 mΩ (1A 6VDC)	Mechanical life	1 x 10 ⁷ cycles (72000 op.h)

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

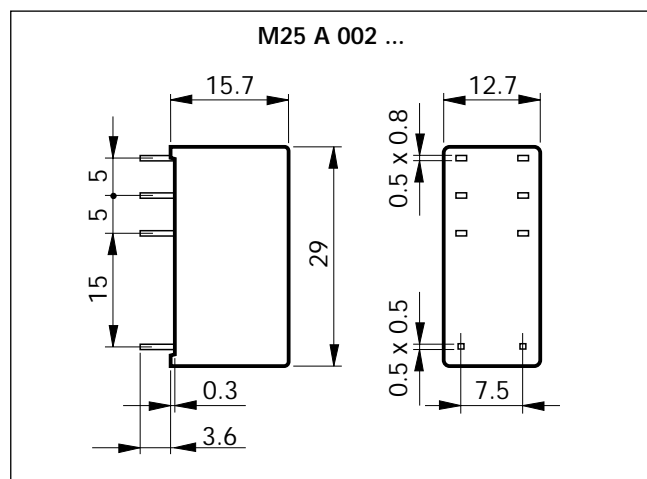
Insulation

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

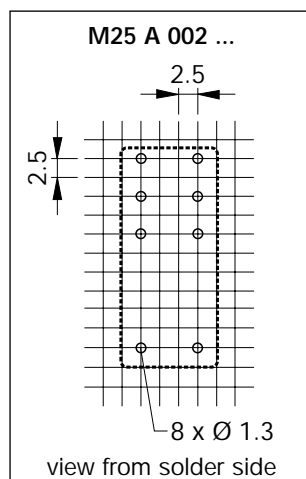
General Data

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

