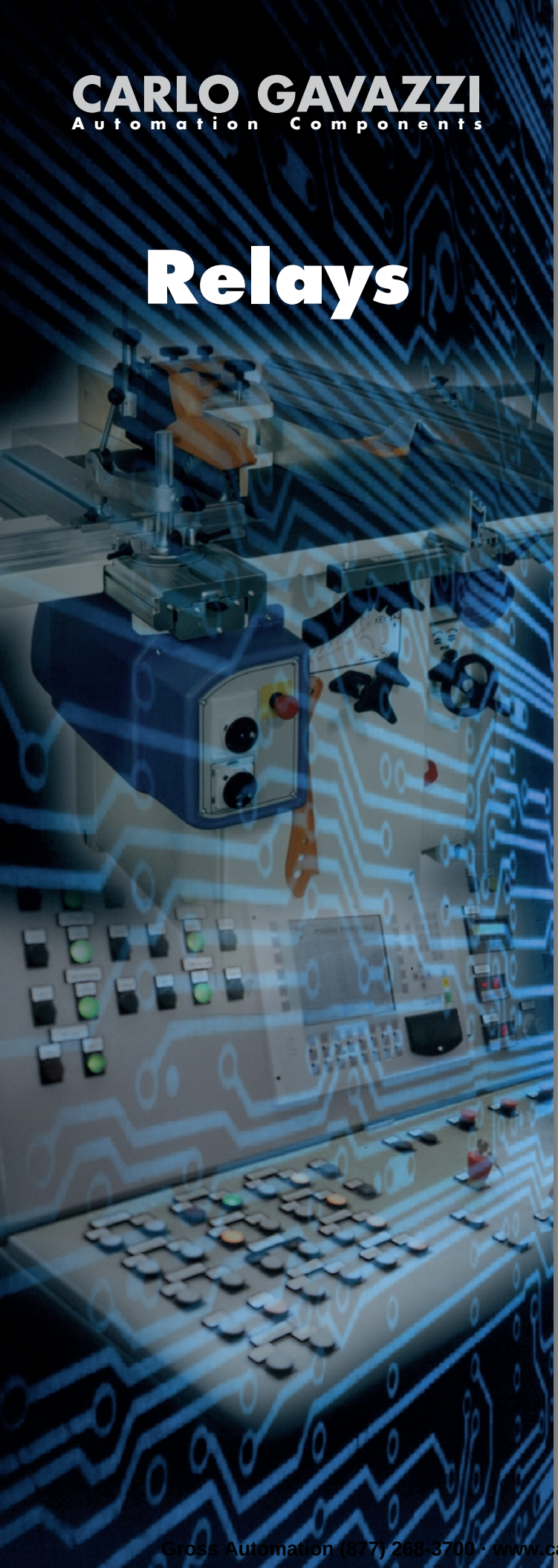
CARLO GAVAZZI
Automation Components

Relays



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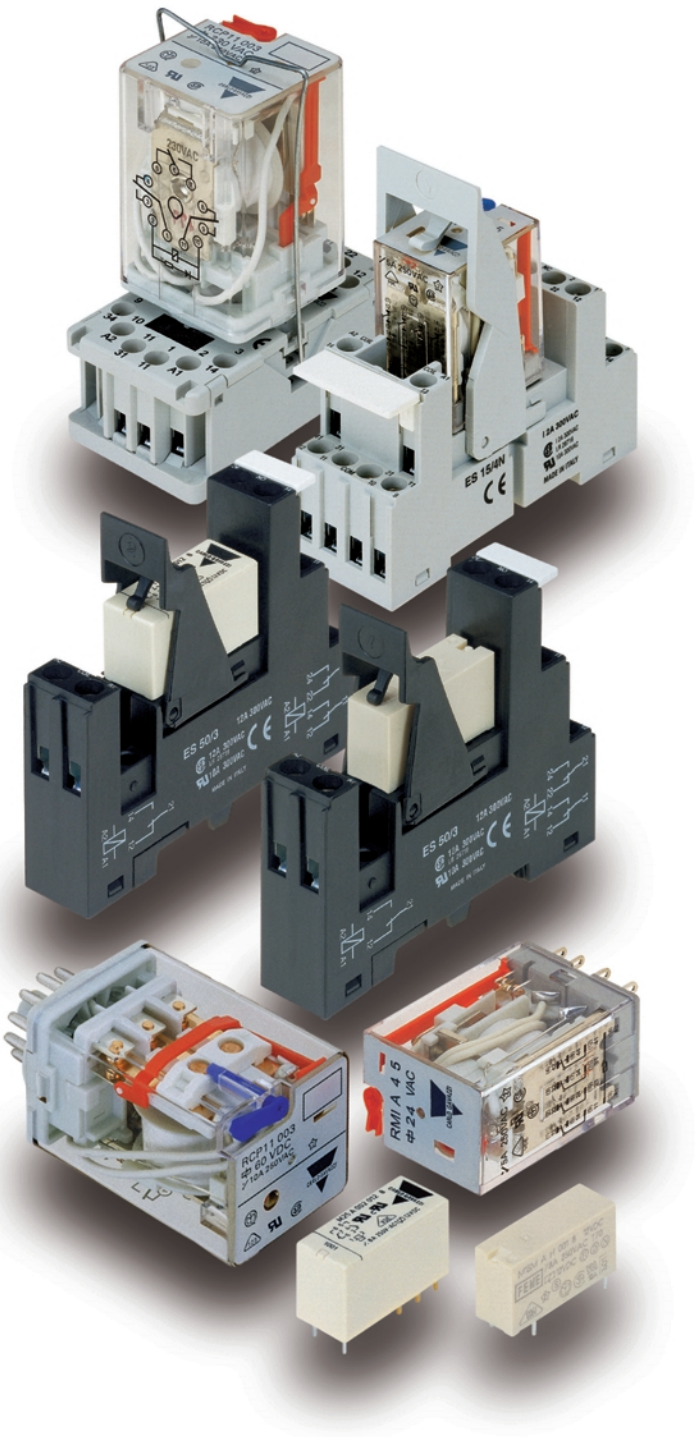


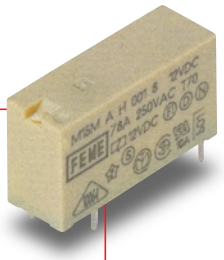
Switch

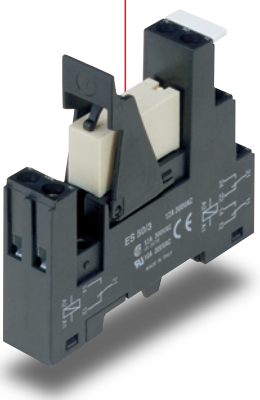
Monostable or Bistable Miniature Power Relays

CARLO GAVAZZI

- Miniature size 15 mm high
- PCB mounting
- Monostable or bistable versions
- 4 kV / 8 mm insulation
- Switching capacity 8 A / 250 VAC
- DC coils:
  - 2 to 147 VDC monostable version
  - 2.4 to 84.7 VDC bistable version
- 1 normally open contact or
  1 change over contact
- General purpose, industrial electronics
- Sealed according to IP 67 standard
- 4 different pin layout configuration
- Low coil power consumption

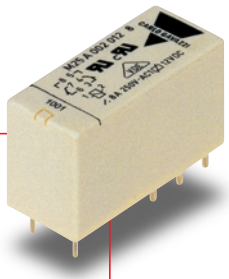
Type M15

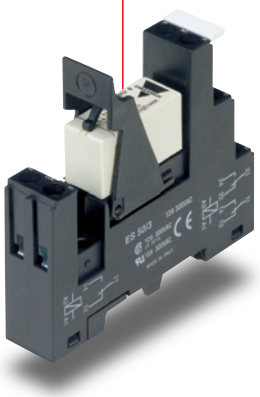




- Miniature size 15.7 mm high
- PCB mounting
- Monostable version
- 5 kV / 10 mm insulation
- Switching capacity:
  - 12 or 16 A / 250 VAC 1 pole version
  - 8 A / 250 VAC 2 pole version
- DC coils 5 to 110 VDC
- 1 or 2 change over contacts
- General purpose, industrial electronics
- Sealed according to IP 67 standard
- Low coil power consumption

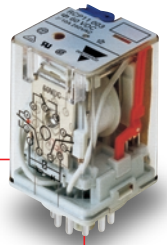
Type M25



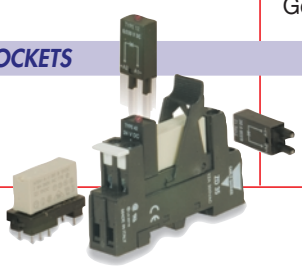


Relay



TYPE	M15 - M15 R1/R2	M25	RMI 2-10 /RMI 4-5	RCP
DIMENSIONS				
Height - Length - Width	15 x 29 x 10	15.7 x 29 x 12.7	36 x 28 x 21.5	56 x 35.5 x 35.5
CONTACTS				
Configuration	1 CO, 1 NA	1 CO, 2 CO	2 CO, 4 CO	2 CO, 3 CO
Material	AgCdO	AgCdO	Silver alloy	Silver alloy
Rated current	8 A	8 A, 12 A, 16 A	5 A, 10 A	10 A
Max. switching power	2000 VA	2000VA-3000VA-4000VA	300 W-2500 VA (2 poles)	300 W- 2500 VA
	-	-	150 W-1250 VA (4 poles)	-
Max. contact voltage	380 VAC	440 VAC	250 VAC / 30 VDC	380 VAC
Minimum permissible	100 mA at 24 VDC	100 mA at 24 VDC	-	100 mA at 24 VDC
load (Typical value)	10 mA at 10 mVDC (Au)	-	-	-
COIL				
Rated voltage DC	3 to 110 VDC	5 to 110 VDC	5 to 110 VDC	6 to 110 VDC
	3 to 48 VDC (M15 R1)	-	-	-
	3 to 24 VDC (M15 R2)	-	-	-
AC	-	-	6 to 230 VAC	6 to 230 VDC
Consumption DC	100 mW V_{min}	0.4 W	0.9 W	1.3 W
AC	-	-	1.9 VA	2.1 VA
Operating range	0.7 to 1.7 Vn	See data sheet	0.7 to 1.7 Vn	-
GENERAL DATA				
Electrical life (at max. switching power)	1 x 10^5 cycles	1 x 10^5 cycles	1 x 10^5 ops (1800 ops/h)	1 x 10^5
Mechanical life	30 x 10^6 cycles	1 x 10^7 cycles	1 x 10^7 ops (18000 ops/h)	1 x 10^7
Insulation test VAC (1min)				
- Contact/coil	4000 VAC	5000 VAC	3750 VAC Vrms	3750 VAC Vrms
- Open contacts	1000 VAC	1000 VAC	750 VAC Vrms	750 VAC Vrms
- Contact different polarity	-	2500 VAC (1 pole)	1250 VAC Vrms	1250 VAC Vrms
Protection category		IP 67	IP 67	IP 40 IP 40
Operating temperature	-40°C to +70°C	-40°C to +85°C	-55°C to +70°C	-40°C to +55°C
Terminal shape	PCB	PCB	Plug-in and PCB	Plug-in
Approvals	UL, CSA, VDE, IMQ S, N, D, F	VDE	UL, CSA, VDE, IMQ	UL, CSA, VDE, IMQ
OPTIONS				
	AgNi, $AgSnO_2$ Gold plated contacts	AgNi, $AgSnO_2$ Gold plated contacts	-	-
SOCKETS				



CARLO GAVAZZI offers a wide range of **printed circuit board and modular DIN rail mount sockets** for our various electromechanical relays. The following optional plug-in blocks are also offered for the DIN rail mount sockets:

LED Indication	Diode Protection	RC Network Protection	MOV Protection

Ordering Key

Pin Layout Configuration	Contact Material	Version	Contact Code	Contact Rated Current	Coil Rated Voltage
M	A	H	001	8	12VDC

- **Pin Layout Configuration**
  - M = 3.5 mm
  - E = 3.2 mm
  - B = 5 mm
  - F = 2.5 mm
- **Contact Material**
  - A = AgCdO
  - B = AgNi
  - C = AgCdO, Au plated > 3.5 micron
  - D = AgCdO, Au gilded > 0.5 micron
  - E = AgNi, Au plated > 3.5 micron
  - F = AgNi, Au gilded > 0.5 micron
  - S = $AgSnO_2$
- **Version**
  - H = Sealed
- **Contact Code**
  - 001 = 1 Change-over
  - 100 = 1 Make contact
- **Contact Rated Current**
  - 8 = 8A
- **Coil Rated Voltage**
  - 3V - 5V - 6V - 8V - 12V - 24V - 48V - 110V DC

Ordering Key

Contact Material	Rated Coil Voltage	DC/AC	Options
A	001	024	16

- **Contact Material**
  - A = AgCdO (Standard)
  - S = $AgSnO_2$
  - C = AgNi10, Au plated > 3.5 micron
  - G = AgNi10
- **Rated Coil Voltage**
  - 001 = 1 Change-over contact
  - 100 = 1 Make contact
  - 002 = 2 Change-over contacts
  - 200 = 2 Make contacts
- **DC/AC**
  - 5VDC=005 / 6VDC=006 / 12VDC=012
  - 24VDC=024 / 48VDC=048 / 60VDC=060
  - 110VDC=110
- **Options**
  - 16 = 16A (001 - 100) Pin layout 5 mm
  - 12 = 12A (001 - 100) Pin layout 3.5 mm
  - 8 = 8A (002 - 200) Pin layout 5 mm

Ordering Key

Terminal Version	Contact Code	Rated Coil Voltage	DC/AC
A	4 5	230	AC

- **Terminal Version**
  - A = Soldering Terminals
  - B = PCB Terminals
- **Contact Code**
  - 2 10 = 2 Change-Over contacts 10A
  - 4 5 = 4 Change-Over contacts 5A
- **Rated Coil Voltage**
  - 5V-6V-12V-24V-48V-60V-110V DC
  - 6V-12V-24V-48V-115/120V-230V AC
- **DC/AC**
  - DC = Direct Current Coils
  - AC = Alternate Current Coils

Ordering Key

Number of Pins	Contact Code	Rated Coil Voltage	DC/AC
11	003	230	AC

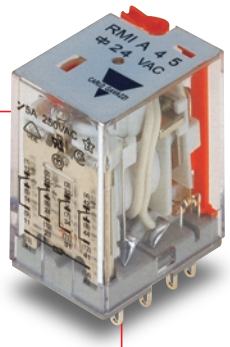
- **Number of Pins**
  - 8 = Eight Pins
  - 11 = Eleven Pins
- **Contact Code**
  - 002 = 2 Change-Over Contacts 10A
  - 003 = 3 Change-Over Contacts 10A
- **Rated Coil Voltage**
  - 6V-12V-24V-48V-60V-100V-110V DC
  - 6V-12V-24V-48V-115/120V-230V AC
- **DC/AC**
  - DC = Direct Current Coils
  - AC = Alternate Current Coils

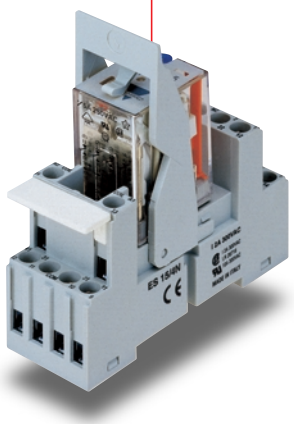
Monostable Midi Industrial and Industrial Relays

CARLO GAVAZZI

Type RMI

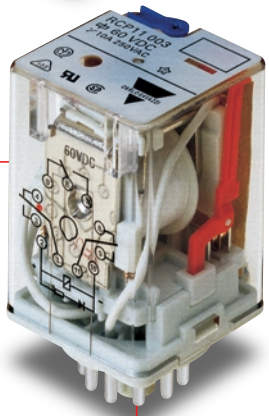
- High switching power
- Small size
- Monostable version
- Switching capacity 2 poles version
  10 A / 250 VAC - 12 A ($5x10^4$ cycles)
- Switching capacity 4 poles version
  5 A / 250 VAC - 6 A ($5x10^4$ cycles)
- DC coils 5 to 110 VDC
- AC coils 6 to 230 VAC
- 2 or 4 change over contacts
- Standard with LED, locking push to test button and mechanical flag indicator
- 3,750 VAC dielectric coil to contacts
- Sealed according to IP 40 standard
- Conform to the CE low voltage directive

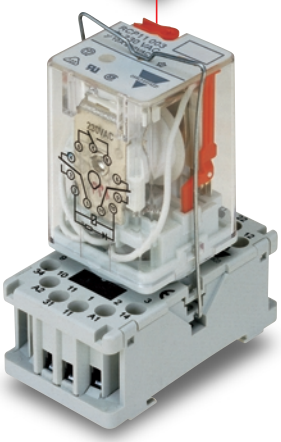




Type RCP

- 8 or 11 pin socket mounting
- Monostable version
- Long life (minimum 100,000 electrical operations at 10 A 250 VAC / 30 VDC)
- Switching capacity:
  10 A / 250 VAC - 12 A ($5x10^4$ cycles)
- DC coils 6 to 110 VDC
- AC coils 6 to 230 VAC
- 2 or 3 change over contacts
- Matched sockets available
- Standard with LED, locking push to test button and mechanical flag indicator
- 3,750 VAC dielectric coil to contacts
- Sealed according to IP 40 standard
- Conform to the CE low voltage directive





The Complete Product Package

CARLO GAVAZZI

Sense

Inductive Proximity • Capacitive Proximity
Photoelectric • Ultrasonic • Level Controls
Limit Switches • Magnetic Switches

Control

Timers • Counters • PLCs • Panel Meters
HMIs • PID Controllers • Energy Management
Current & Voltage Monitors • Enclosures and Cabinets

Solid State Relays • Electromechanical Relays
Motor Controllers • Pushbuttons • Switches
Pilot Devices • Cam Switches • Rotary Disconnects

Switch

Cable Pull Switches • Interlock Switches • Hinge Switches
And Coming Soon: Electrical Transient Protection
Safety Modules • Mat Systems • Light Curtains

Safety