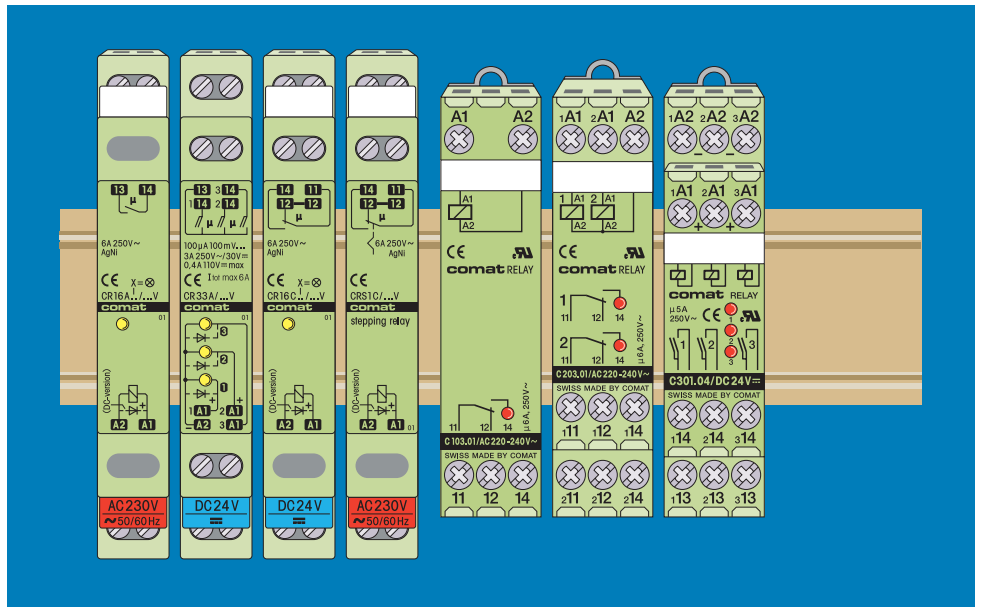


Industrial Relays

DIN Relays



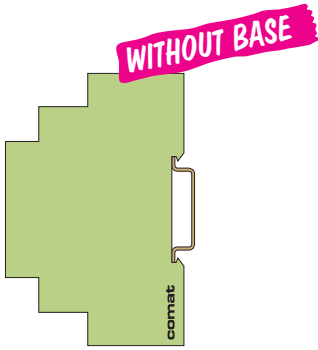
DIN

DIN Relays Recommended application

6A										
5A										
3A										
2A										
1A										
10mA										
1mA										
100µA										
I	1	CR16 C103.01	CRS1C						C103.06	
	2	C133.01		CR23	CR11					
	2x 1	C203.01		CR33		C203.04			C203.06	
	3x 1							C301.04		

twin contacts

DIN Interface



WITHOUT BASE

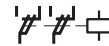
Power Relay



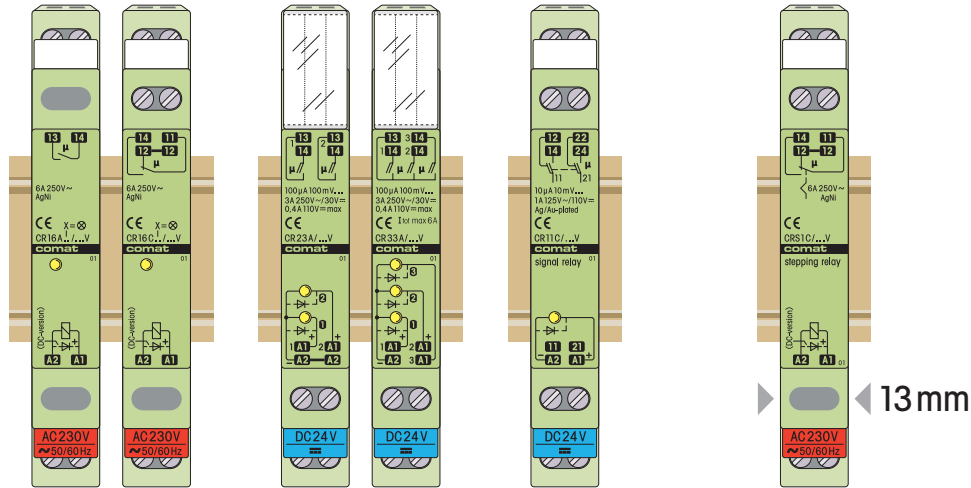
Control Relay



Signal Relay



Step-on/Step-off Relay



CR16AX CR16CX CR23A CR33A CR11C CRS1C

DIN Interface Relays

- No external coil wiring required
- Mounting on DIN rail TS 35

Test voltage: \square 2000V / 2000V /

T_{amb.} operation/storage:
-20...+60/-40...+85°C

Power Relay
13mm series, 1 x NO resp.
1 x CO up to 6A.
Integrated LED and coil wiring.

Control Relay (Signal relays)
13mm series, 2/3 channel,
each 1 x NO Au twin contact.
Recommended max. load
200 mA/24V resistiv.
Integrated LED and coil wiring.

Signal Relay
13mm series, 1 channel,
2 x CO Au twin contact.
Recommended max. load
200 mA/24V, resistiv.
Integrated LED and coil wiring.

Stepping Relay
13mm series, 1 x CO suitable
for permanent energizing.
Supply loss safe.
Integrated LED and coil wiring.



6A 250V~
10mA 12V

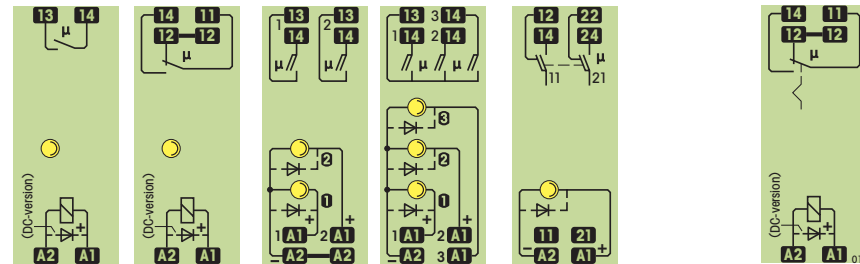
3A 250V~
100µA 100mV

1A 250V~
100µA 10mV

6A 250V~
10mA 12V

Connection

µ = contact opening < 3mm



Data at T_{amb.} = 20°C

Contact material
Switching load AC1/DC1
Peak inrush power
Switching cycles mech./electr.(AC1)

Operation voltage AC/50Hz/DC
Power consumption AC/DC
Triggering delay / release time

AgNi
1500VA/...180W
15A/20ms
30x10⁶ / ≥ 1,5x10⁵
AC -20% +10%/DC ±15%
2,5VA/0,25W
10ms/20ms

Ag-alloy/Au3µm
750VA/...90W
20x10⁶ / ≥ 1,5x10⁵
— /DC ±20%
0,25W
6ms/4ms

Ag-alloy/Au5µm
65VA/...30W
—
200x10⁶ / ≥ 10⁵
— /DC ±25%
0,25W
3ms/4ms

AgNi
1500VA/...180W
15A/20ms
DC:10x10⁶; AC:10⁵ / ≥ 10⁵
AC ±15%/DC ±15%
2VA/1,5W
Recomm. triggering time ≥ 50ms



DC =
I ≤ 10%



AC ~
50/60Hz

24
CR16AX CR16CX / DC...V

24
CR23A CR33A / DC...V

24
CR11C / DC...V

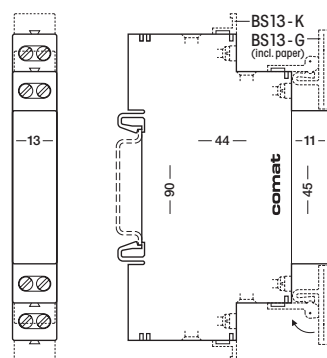
24
CRS1C / DC...V

230
CR16AX CR16CX / AC...V

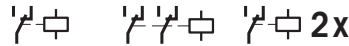
230
CRS1C / AC...V

Ordering example

Relay
CRS1C/AC230V



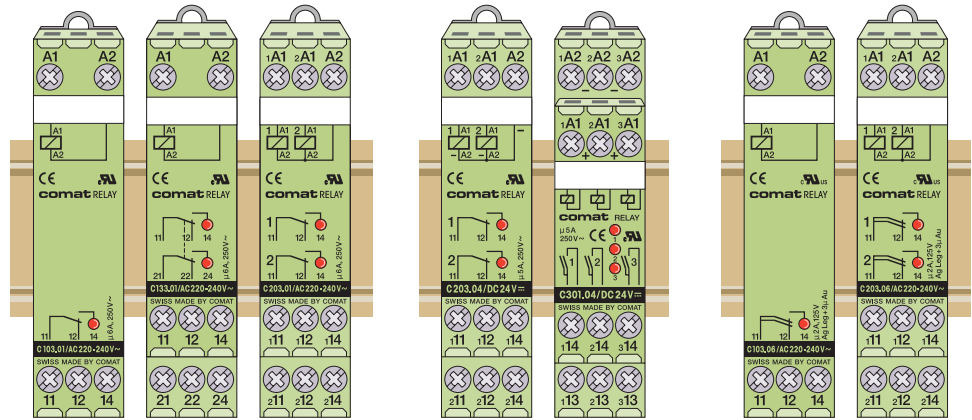
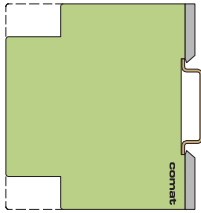
Power Relays



Control Relays



Signal Relays



DIN Interface Relay

- No external coil wiring required
- Mounting on DIN rail TS 35

Test voltage: \square 2000V / 2000V \square

T_{amb.} operation/storage: -20...+60/-40...+85°C

C103.01 C133.01 C203.01 C203.04 C301.04 C103.06 C203.06

Power Relay
DIN series 17,5 mm, 1/2 channels with 1/2 x CO contacts up to 6A. Integrated LED and coil wiring.

Control Relay
High efficient 2/3 channel control relay DIN series 17,5 mm, each 1 x CO resp. 1 x NO twin contact. Multi-layer contact up to 5A. Very versatile in application. Integrated LED and coil wiring.

Signal Relay
DIN series 17,5 mm, 1/2 channel each 1 x CO Au twin contact. Recommended max. load 200mA/24V. Integrated LED and coil wiring.



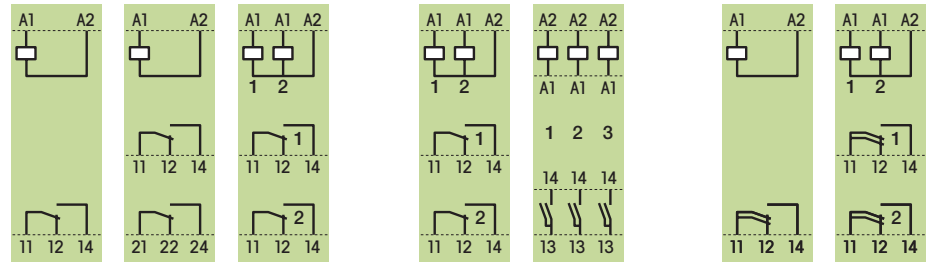
6A 250V~
10mA 24V

5A 250V~
1mA 0,1V

2A 125V~
10µA 10mV

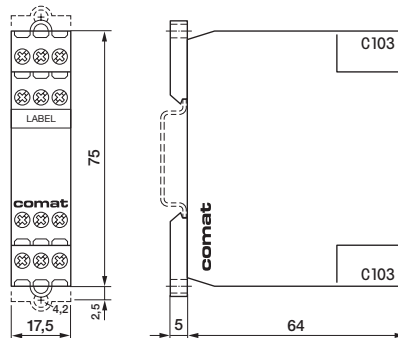
Connection

µ = contact opening < 3mm



Data at T_{amb.} = 20°C

Contact material Switching load AC1/DC1 Peak inrush power Switching cycles mech./electr. (AC1)	AgNi	Ag-alloy	Ag-alloy/Au3µm
	1500VA/...300W	1250VA/...150W	250VA/...60W
Operation voltage AC 50Hz/DC Power consumption AC/DC Triggering delay / release time	0,85...1,15Un	0,8...1,2Un	0,8...1,2Un
	≤ 0,6W ≤ 1,7W 2x ≤ 0,6W	0,25W (per channel)	0,25W (per channel)
DC ≡ ≤ 10%	C103.01 C133.01 C203.01 / DC ... V	C203.04 C301.04 / DC ... V	C103.06 C203.06 / DC ... V
	110-127, 220-240		
AC ~ 50/60Hz	C103.01 C133.01 C203.01 / AC ... V		C103.06 C203.06 / AC ... V
	110-127, 220-240		
UC R ~ = ∞	C103.01 C133.01 C203.01 / UC ... V		C103.06 C203.06 / UC ... V
	24, 36, 48		



Ordering example

Relay
C301.04/DC 24V