

Power relays 1 and 2 pole for direct PCB or socket mount

Type 40.31/51

- 1 CO 12 A (3.5 mm pin pitch)
- 1 CO 12 A (5.0 mm pin pitch)

Type 40.52

- 2 CO 8 A (5.0 mm pin pitch)

Type 40.61

- 1 CO 16 A (5.0 mm pin pitch)

- Pin length 3.5 mm for PCB mount
- Pin length 5.3 mm for Plug-in mount
- DC coils (650 mW or 500 mW)
- Cadmium-free contact material available
- 8 mm Creepage and Clearance, 6 kV (1.2/50µs) between coil and contact
- Meets EN 60335-1 glow wire requirements
- 95 series sockets for PCB or 35 mm rail mounting (EN 60715) with Screw, Screwless or Push-in terminals
- Coil Indication and EMC suppression modules 99 series and Timer module 86.30 options
- Environmental protection:
RT II - flux proof (Standard)
RT III - wash tight (Option)

* Mounted on sockets ≤ 10 A

** With the AgSnO₂ material the maximum peak current is 120 A - 5 ms on normally open contact.

FOR UL RATINGS SEE:

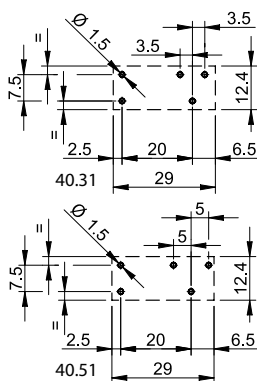
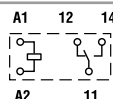
"General technical information" page V

For outline drawing see page 12

40.31/51



- 1 CO 12 A on PCB, 10 A with socket
- 3.5 mm pin pitch (40.31), 5.0 mm pin pitch (40.51)
- PCB or 95 Series socket mount



Copper side view

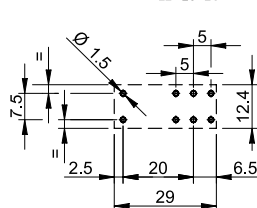
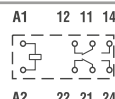
Pin length 3.5 mm for PCB only
Pin length 5.3 mm for PCB or sockets

See ordering information

40.52



- 2 CO 8 A
- 5.0 mm pin pitch
- PCB or 95 Series socket mount



Copper side view

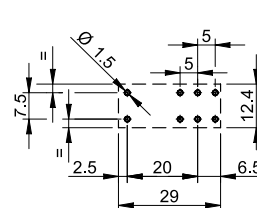
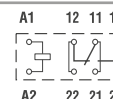
Pin length 5.3 mm for PCB or sockets

See ordering information

40.61



- 1 CO 16 A
- 5.0 mm pin pitch
- PCB or 95 Series socket mount



Copper side view

Pin length 3.5 mm for PCB only
Pin length 5.3 mm for PCB or sockets

See ordering information

Contact specification		40.31/51	40.52	40.61
Contact configuration		1 CO (SPDT)	2 CO (DPDT)	1 CO (SPDT)
Rated current/Maximum peak current	A	12*/20	8/15	16/30**
Rated voltage/Maximum switching voltage	V AC	250/400	250/400	250/400
Rated load AC1	VA	3000	2000	4000
Rated load AC15 (230 V AC)	VA	1000	750	1000
Single phase motor rating (230 V AC)	kW	0.55	0.37	0.55
Breaking capacity DC1: 30/110/220 V	A	12/0.6/0.25	8/0.6/0.25	16/0.6/0.25
Minimum switching load	mW (V/mA)	300 (5/5)	300 (5/5)	500 (10/5)
Standard contact material		AgNi	AgNi	AgCdO
Coil specification				
Nominal voltage (U _N)	V AC (50/60 Hz)	—		
	V DC	5 - 6 - 7 - 9 - 12 - 14 - 18 - 21 - 24 - 28 - 36 - 48 - 60 - 90 - 110 - 125		
Rated power DC/sensitive DC	W	0.65/0.5		
Operating range	AC	—		
	DC/sensitive DC	(0.73...1.5)U _N /(0.73...1.5)U _N		
Holding voltage	DC	0.4 U _N		
Must drop-out voltage	DC	0.1 U _N		
Technical data				
Mechanical life	cycles	10 · 10 ⁶		
Electrical life at rated load AC1	cycles	200 · 10 ³		
Operate/release time	ms	7/3 (10/3 sensitive)		
Insulation between coil and contacts (1.2/50 µs)	kV	6 (8 mm)		
Dielectric strength between open contacts	V AC	1000		
Ambient temperature range	°C	-40...+85		
Environmental protection		RT II***		

Approvals (according to type)



*** See general technical information "Guidelines for automatic flow solder processes" page II.