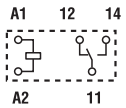
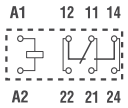
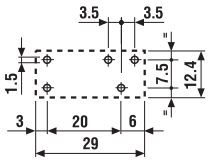
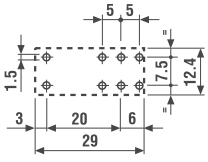
Features

1 Pole relay range
40.31 - 1 Pole 12 A (3.5 mm pin pitch)
40.61 - 1 Pole 16 A (5 mm pin pitch)

- Pin length 3.5 mm for pcb mount
- Pin length 5.3 mm as Plug-in relay
- DC standard (0.65 W) or sensitive (0.5 W) coils available
- Cadmium Free contact material available
- 6 kV (1.2/50 µs) isolation coil-contacts
- 8 mm creepage and clearance distances between coil and contacts
- Meets EN 60335-1 glow wire requirements
- Flux proof: RT II standard or wash tight RT III
- AC inductive load rating (related to AC15 utilisation category) 4 A 250 V approved according to EN 61810-1:2008 (Annex B tables B1, B2, B3)

	40.31	40.61
		
	• 3.5 mm contact pin pitch • 1 Pole 12 A (on PCB; 10 A with socket) • PCB or 95 series sockets	• 5 mm contact pin pitch • 1 Pole 16 A • PCB or 95 series sockets
		
		
	Copper side view	Copper side view
	Pin length 3,5 mm for PCB only Pin length 5.3 mm for PCB or sockets	Pin length 3,5 mm for PCB only Pin length 5.3 mm for PCB or sockets
* mounted on sockets ≤ 10 A		
For outline drawing see page 10	See ordering information	See ordering information
Contact specification		
Contact configuration	1 CO (SPDT)	1 CO (SPDT)
Rated current/Maximum peak current A	12*/20	16/30
Rated voltage/Maximum switching voltage V AC	250/400	250/400
Rated load AC1 VA	3,000	4,000
Rated load AC15 (230 V AC) VA	1,000	1,000
Single phase motor rating (230 V AC) kW	0.55	0.55
Breaking capacity DC1: 30/110/220 V A	12/0.3/0.12	16/0.3/0.12
Minimum switching load mW (V/mA)	300 (5/5)	500 (10/5)
Standard contact material	AgNi	AgCdO
Coil specification		
Nominal voltage (U_N) V AC (50/60 Hz)	—	—
V DC	12 - 24	12 - 24
Rated power DC/sensitive DC W	0.65/0.5	0.65/0.5
Operating range AC	—	—
DC/sensitive DC	(0.73…1.5)U_N/(0.73…1.5)U_N	(0.73…1.5)U_N/(0.8…1.5)U_N
Holding voltage DC	0.4 U_N	0.4 U_N
Must drop-out voltage DC	0.1 U_N	0.1 U_N
Technical data		
Mechanical life cycles	$10 \cdot 10^6$	$10 \cdot 10^6$
Electrical life at rated load AC1 cycles	$200 \cdot 10^3$	$100 \cdot 10^3$
Operate/release time ms	7/3 (10/3 sensitive)	7/3 (10/3 sensitive)
Insulation between coil and contacts (1.2/50 µs) kV	6 (8 mm)	6 (8 mm)
Dielectric strength between open contacts V AC	1,000	1,000
Ambient temperature range °C	–40…+85	–40…+85
Environmental protection	RT II**	RT II**
Approvals (according to type)		

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

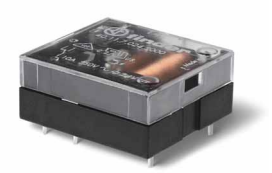
Features

A

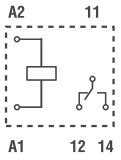
1 Pole relay range
- 1 Pole 10 A (Flat pack)

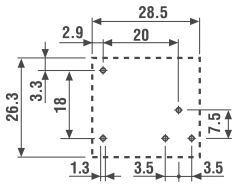
- DC coils
- Cadmium Free option available
- 8 mm, 6 kV (1.2/50 µs) isolation, coil-contacts

40.11



- 1 Pole 10 A
- Flat pack
- PCB mount





Copper side view

FOR UL RATINGS SEE:
"General technical information" page V

For outline drawing see page 10

Pin length 3.5 mm for PCB only

Contact specification		
Contact configuration		1 CO (SPDT)
Rated current/Maximum peak current	A	10/20
Rated voltage/Maximum switching voltage	V AC	250/400
Rated load AC1	VA	2,500
Rated load AC15 (230 V AC)	VA	500
Single phase motor rating (230 V AC)	kW	0.37
Breaking capacity DC1: 30/110/220 V	A	10/0.3/0.12
Minimum switching load	mW (V/mA)	300 (5/5)
Standard contact material		AgCdO
Coil specification		
Nominal voltage (U_N)	V AC (50/60 Hz)	—
	V DC	6 - 12 - 24 - 48 - 60
Rated power AC/DC/sens. DC	VA (50 Hz)/W/W	—/—/0.5
Operating range	AC	—
	DC/sens. DC	—/(0.73...1.75)U_N
Holding voltage	AC/DC	—/0.4 U_N
Must drop-out voltage	AC/DC	—/0.1 U_N
Technical data		
Mechanical life	cycles	$20 \cdot 10^6$
Electrical life at rated load AC1	cycles	$200 \cdot 10^3$
Operate/release time	ms	12/4
Insulation between coil and contacts (1.2/50 µs)	kV	6 (8 mm)
Dielectric strength between open contacts	V AC	1,000
Ambient temperature range	°C	–40...+70
Environmental protection		RT I
Approvals (according to type)		EAC cULus VDE