

1 & 2 Pole - Low profile (15.7 mm height)
41.31 - 1 Pole 12 A (3.5 mm pin pitch)
41.52 - 2 Pole 8 A (5 mm pin pitch)
41.61 - 1 Pole 16 A (5 mm pin pitch)

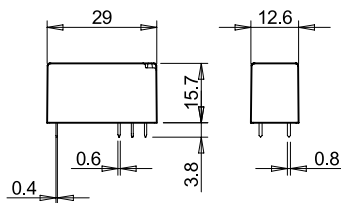
PCB mount

- direct or via PCB socket

35 mm rail mount

- via screw and screwless sockets

- AC and DC coils
- 8 mm, 6 kV (1.2/50 μ s) isolation, coil-contacts
- Cadmium Free contact materials
- Flux proof: RT II standard, (RT III option)



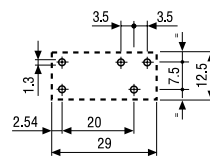
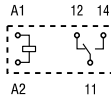
FOR UL RATINGS SEE:

"General technical information" page V

41.31



- 3.5 mm contact pin pitch
- 1 Pole 12 A
- PCB direct or via socket

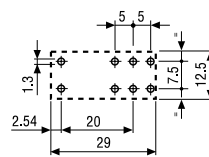
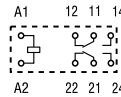


Copper side view

41.52



- 5 mm contact pin pitch
- 2 Pole 8 A
- PCB direct or via socket

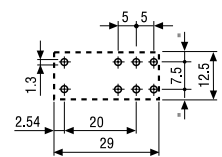
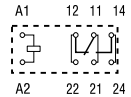


Copper side view

41.61



- 5 mm contact pin pitch
- 1 Pole 16 A
- PCB direct or via socket



Copper side view

Contact specification

Contact configuration		1 CO (SPDT)	2 CO (DPDT)	1 CO (SPDT)
Rated current/ Maximum peak current	A	12/25	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	600	400	750
Single phase motor rating (230 V AC)	kW	0.5	0.3	0.5
Breaking capacity DC1: 30/110/220 V	A	12/0.3/0.12	8/0.3/0.12	16/0.3/0.12
Minimum switching load	mW (V/mA)	300 (5/5)	300 (5/5)	300 (5/5)
Standard contact material		AgNi	AgNi	AgNi

Coil specification

Nominal voltage (U_N)	V AC (50/60 Hz)	24 - 230	24 - 230	24 - 230
	V DC	5 - 6 - 12 - 24 - 48 - 60 - 110	5 - 6 - 12 - 24 - 48 - 60 - 110	5 - 6 - 12 - 24 - 48 - 60 - 110
Rated power AC/DC	VA (50 Hz)/W	0.75/0.4	0.75/0.4	0.75/0.4
Operating range	AC	$(0.8 \dots 1.1) U_N$	$(0.8 \dots 1.1) U_N$	$(0.8 \dots 1.1) U_N$
	DC	$(0.7 \dots 1.5) U_N$	$(0.7 \dots 1.5) U_N$	$(0.7 \dots 1.5) U_N$
Holding voltage	AC/DC	$0.8/0.4 U_N$	$0.8/0.4 U_N$	$0.8/0.4 U_N$
Must drop-out voltage	AC/DC	$0.15/0.1 U_N$	$0.15/0.1 U_N$	$0.15/0.1 U_N$

Technical data

Mechanical life AC/DC	cycles	$10 \cdot 10^6 / 10 \cdot 10^6$	$10 \cdot 10^6 / 10 \cdot 10^6$	$10 \cdot 10^6 / 10 \cdot 10^6$
Electrical life at rated load AC1	cycles	$60 \cdot 10^3$	$60 \cdot 10^3$	$50 \cdot 10^3$
Operate/release time	ms	8/6	8/6	8/6
Insulation between coil and contacts (1.2/50 μ s)	kV	6 (8 mm)	6 (8 mm)	6 (8 mm)
Dielectric strength between open contacts	V AC	1000	1000	1000
Ambient temperature range	$^{\circ}$ C	-40...+70 (AC); +85 (DC)	-40...+70 (AC); +85 (DC)	-40...+70 (AC); +85 (DC)
Environmental protection		RT II	RT II	RT II

Approvals (according to type)

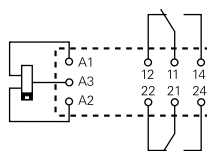


**1 & 2 Pole - Polarized bistable, Low profile
(15.7 mm height)****41.52 - 2 Pole 8 A (5 mm pin pitch)****41.61 - 1 Pole 16 A (5 mm pin pitch)****Printed Circuit mount**

- Polarized bistable relay with 2 coils
- 10 mm, 6 kV (1.2/50 μ s) isolation, coil-contacts
- Cadmium Free contact materials
- Flux proof: RT II standard

41.52.6.xxx

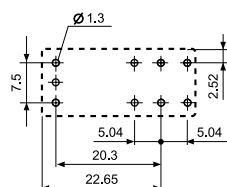
- 2 Pole, 8 A
- PCB direct mount



2 coil version:

A3(+) A2 (-) = Set

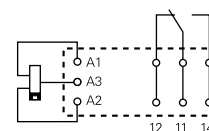
A3(+) A1 (-) = Reset



Copper side view

41.61.6.xxx

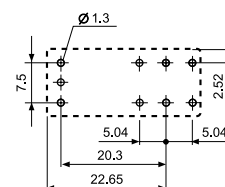
- 1 Pole, 16 A
- PCB direct mount



2 coil version:

A3(+) A2 (-) = Set

A3(+) A1 (-) = Reset



Copper side view

Contact specification

Contact configuration		2 CO (DPDT)	1 CO (SPDT)
Rated current/ Maximum peak current (I_N/I_{max})	A	8/15	16/30
Rated voltage/ Maximum switching voltage (U_N/U_{max})	V AC	250/400	250/400
Rated load AC1	VA	2000	4000
Rated load AC15 (230 V AC)	VA	350	750
Single phase motor rating (230 V AC)	kW	0.37	0.55
Breaking capacity DC1: 30/110/220 V	A	8/0.3/0.12	16/0.3/0.12
Minimum switching load	mW (V/mA)	500 (5/100)	500 (5/100)
Standard contact material		AgSnO ₂	AgSnO ₂

Coil specification

Nominal voltage (U_N)	V DC	5 - 12 - 24	5 - 12 - 24
Rated power (P_N)	W	0.65	0.65
Operating range	DC	(0.7...1.1) U_N	(0.7...1.1) U_N
Min. impulse duration	ms	20	20
Max. impulse duration	s	30	30

Technical data

Mechanical life DC	cycles	$5 \cdot 10^6$	$5 \cdot 10^6$
Electrical life at rated load AC1	cycles	$30 \cdot 10^3$	$30 \cdot 10^3$
Operate/release time	ms	10/5	10/10
Insulation between coil and contacts (1.2/50 μ s)	kV	6 (10 mm)	6 (10 mm)
Dielectric strength between open contacts	V AC	1000	1000
Ambient temperature range	°C	-40...+85	-40...+85
Environmental protection		RT II	RT II

Approvals (according to type)