

1 Pole - Low profile (15.4 mm height)

Type 43.41

- 1 Pole, 10 A (3.2 mm pin pitch)

Type 43.41-0300

- 1 Pole NO, 10 A (5 mm pin pitch)

Type 43.61-0300

- 1 Pole NO, 16 A (5 mm pin pitch)

PCB mount - direct or via PCB socket (43.41 version)

- Sensitive DC coil:
 - 250 mW (10 A version)
 - 400 mW (16 A version)
- Very high coil-contact isolation 10 mm, 6 kV (1.2/50 µs)
- Cadmium Free contacts (preferred version)
- Flux proof: RT II standard, (RT III option)

FOR UL RATINGS SEE:

"General technical information" page V

For outline drawing see page 5

Contact specification

Contact configuration		1 CO (SPDT)	1 NO (SPST-NO)	1 NO (SPST-NO)
Rated current/Maximum peak current	A	10/15	10/15	16/25
Rated voltage/Maximum switching voltage	V AC	250/400	250/400	250/400
Rated load AC1	VA	2500	2500	4000
Rated load AC15 (230 V AC)	VA	500	500	750
Single phase motor rating (230 V AC)	kW	—	—	—
Breaking capacity DC1: 30/110/220 V	A	10/0.3/0.12	10/0.3/0.12	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)	—	—	—
	V DC	3 - 6 - 9 - 12 - 18 - 24 - 36 - 48	3 - 6 - 9 - 12 - 18 - 24 - 36 - 48	12 - 24 - 48
Rated power AC/DC	VA (50 Hz)/W	—/0.25	—/0.25	—/0.4
Operating range	AC	—	—	—
	DC	(0.7...1.5)U _N	(0.7...1.5)U _N	(0.7...1.2)U _N
Holding voltage	AC/DC	—/0.4 U _N	—/0.4 U _N	—/0.4 U _N
Must drop-out voltage	AC/DC	—/0.05 U _N	—/0.05 U _N	—/0.05 U _N

Technical data

Mechanical life AC/DC	cycles	—/10 · 10 ⁶	—/10 · 10 ⁶	—/10 · 10 ⁶
Electrical life at rated load AC1	cycles	100 · 10 ³	100 · 10 ³	50 · 10 ³
Operate/release time	ms	6/4	6/2	6/2
Insulation between coil and contacts (1.2/50 µs)	kV	6 (10 mm)	6 (10 mm)	6 (10 mm)
Dielectric strength between open contacts	V AC	1000	1000	1000
Ambient temperature range	°C	−40...+85	−40...+85	−40...+85
Environmental protection		RT II	RT II	RT II

Approvals (according to type)



Ordering information

Example: 43 series low-profile PCB relay, 1 CO (SPDT), 24 V DC coil.

A

4 3 . 4 1 . 7 . 0 2 4 . 2 0 0 . 0

Series

Type

4 = PCB - 3.2 mm pinning
(CO/SPDT, 10 A)
PCB - 5 mm pinning
(NO/SPST-NO, 10 A)
6 = PCB - 5 mm pinning
(NO/SPST-NO, 16 A)

No. of poles

1 = 1 pole

Coil version

7 = Sensitive DC (only for 43.41)
9 = DC (only for 43.61)

Coil voltage

See coil specifications

A: Contact material

0 = AgNi
2 = AgCdO
4 = AgSnO₂
5 = AgNi + Au

B: Contact circuit

0 = CO (SPDT) - (for 43.41 only)
3 = NO (SPST)

D: Special versions

0 = Flux proof (RT II)
1 = Wash tight (RT III)

C: Options

0 = None

Selecting features and options: only combinations in the same row are possible.
Preferred selections for best availability are shown in **bold**.

Type	Coil version	A	B	C	D
43.41	sensitive DC	0 - 2 - 4 - 5	0 - 3	0	0 - 1
43.61	DC	0 - 2 - 4	3	0	0

Technical data

Insulation according to EN 61810-1

Nominal voltage of supply system	V AC	230/400
Rated insulation voltage	V AC	250 400
Pollution degree		3 2

Insulation between coil and contact set

Type of insulation		Reinforced (10 mm)
Overvoltage category		III
Rated impulse voltage	kV (1.2/50 µs)	6
Dielectric strength	V AC	4000

Insulation between open contacts

Type of disconnection		Micro-disconnection
Dielectric strength	V AC/kV (1.2/50 µs)	1000/1.5

Insulation between coil terminals

Rated impulse voltage (surge) differential mode (according to EN 61000-4-5)	kV(1.2/50 µs)	2
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Other data

Bounce time: NO/NC	ms	3/6
Vibration resistance (5...55)Hz: NO/NC	g	15/3
Shock resistance	g	15
Power lost to the environment	without contact current	W 0.25 (43.41) 0.4 (43.61)
	with rated current	W 1.3 (43.41) 2 (43.61)
Recommended distance between relays mounted on PCB	mm	≥ 5