

Low profile PCB relays 10 - 16 A



Medical and dentistry



Alarm systems



Air conditioners



Burners, boilers and furnaces



Electric and electronic toys and games



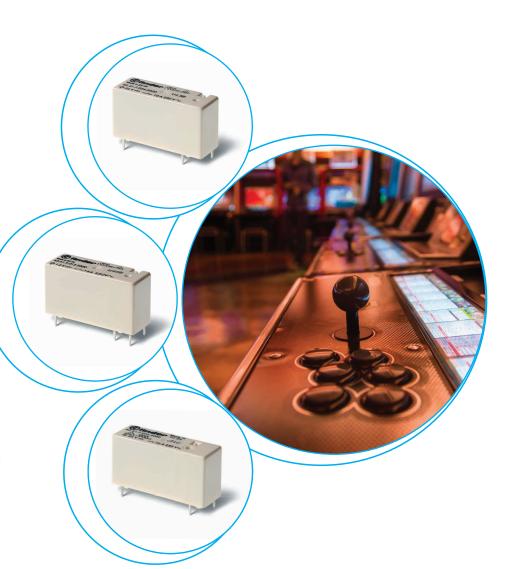
Door and gate openers



Electronic circuit boards



Vending machines



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)

43.41



- 3.2 mm contact pin pitch
- 1 Pole CO, 10 A
- PCB direct or via socket

43.41-0300

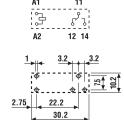


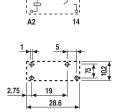
- 5.0 mm contact pin pitch
- 1 Pole NO, 10 A
- PCB mount





- 5.0 mm contact pin pitch
- 1 Pole NO, 16 A
- PCB mount





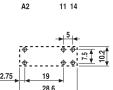
6/2

6 (10 mm)

1000

-40...+85

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FOR UL RATINGS SEE:

FOR UL RATINGS SEE: "General technical information" page V				
For outline drawing see page 5		Copper side view	Copper side view	Copper side view
Contact specification				
Contact configuration		1 CO (SPDT)	1 NO (SPST-NO)	1 NO (SPST-NO)
Rated current/Maximum peak co	urrent 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: 24/110/220 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 H		_	_	_
	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	(0.71.5)U _N	(0.71.5)U _N	(0.71.2)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 · 10³	100 · 10³	50 · 10³

6/4

6 (10 mm)

1000

-40...+85

RT II

Operate/release time

Dielectric strength

Insulation between coil and contacts (1.2/50 μ s)

between open contacts

Ambient temperature range

Approvals (according to type)

Environmental protection

ms

kV

V AC

°C

6/2

6 (10 mm)

1000

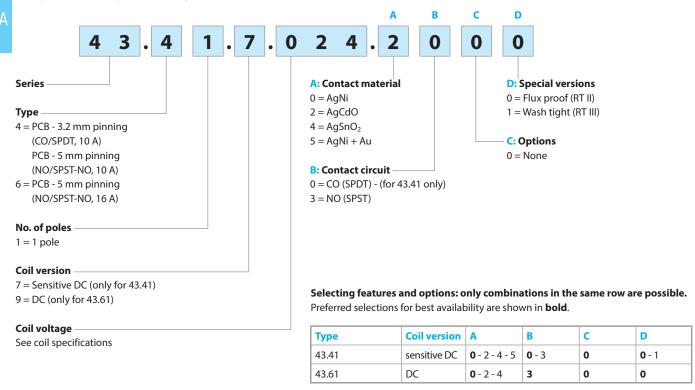
-40...+85

RT II



Ordering information

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



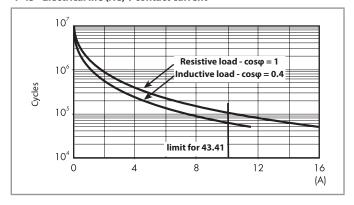
Technical data

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 conta	ct 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) difference (according to EN 61000-4-5)	ential mode kV (1.2/50 μs)	2		
Other data				
Bounce time: NO/NC	ms	3/6		
Vibration resistance (555)Hz: NO/I	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 re	elays mounted on PCB mm	≥5		

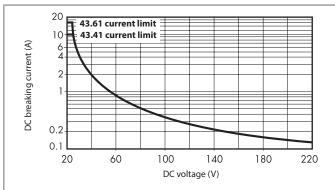
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Contact specification

F 43 - Electrical life (AC) v contact current



H 43 - Maximum DC1 breaking capacity



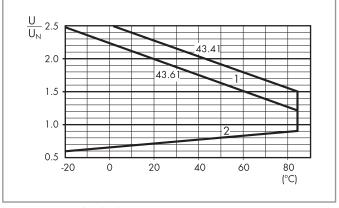
- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of $\geq 100 \cdot 10^3$ for 43.41 and \geq 50 · 10³ for 43.61 can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load. Note: the release time for the load will be increased.

Coil specifications

DC coil data - 0.25 W sensitive (type 43.41)

De ton data 0125 ti sensitive (type 15.11)					
Nominal voltage	Coil code	Operating range		Resistance	Rated coil consumption
U _N		U_{min}	U _{max}	R	I at U _N
V		V	V	Ω	mA
3	7 .003	2.2	4.5	36	83.5
6	7 .006	4.2	9	150	40
9	7 .009	6.5	13.5	324	27.7
12	7 .012	8.4	18	580	20.7
18	7 .018	13	27	1300	13.8
24	7 .024	16.8	36	2200	10.9
36	7 .036	25.2	54	5200	6.9
48	7 .048	33.6	72	9200	5.2

R 43 - DC coil operating range v ambient temperature



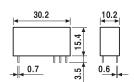
- 1 Max. permitted coil voltage.
- 2 Min. pick-up voltage with coil at ambient temperature.

DC coil data - 0.4 W standard (type 43.61)

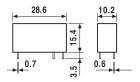
Nominal voltage	Coil code	Operating range		Resistance	Rated coil consumption
U _N		U _{min}	U _{max}	R	I at U_N
V		V	V	Ω	mA
12	9 .012	8.4	14.4	360	33.3
24	9 .024	16.8	28.8	1400	17.1
48	9 .048	33.6	57.6	5760	8.3

Outline drawings

Type 43.41



Types 43.41-0300/43.61-0300





95 SERIES Sockets and accessories for 43 series relays

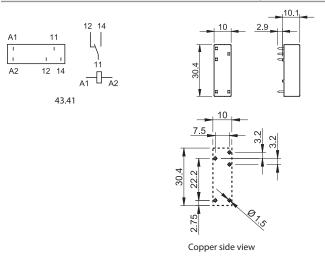




Approvals



PCB socket (for changeover contacts only)	95.23 (blue)	95.23.0 (black)	
For relay type	43.41	43.41	
Accessories			
Metal retaining clip			
(supplied with socket - packaging code SNA)	095.43		
Technical data			
Rated values	10 A - 250 V		
Insulation	6 kV (1.2/50 μs) between coil and contacts		
Protection category	IP 20		
Ambient temperature °C	-40+70		



Packaging codes

How to code and identify retaining clip and packaging options for sockets.

Example:

