

Low profile PCB relays 10 - 16 A



Medical and dentistry



Alarm systems



Air conditioners



Burners, boilers and furnaces



Electric and electronic toys and games



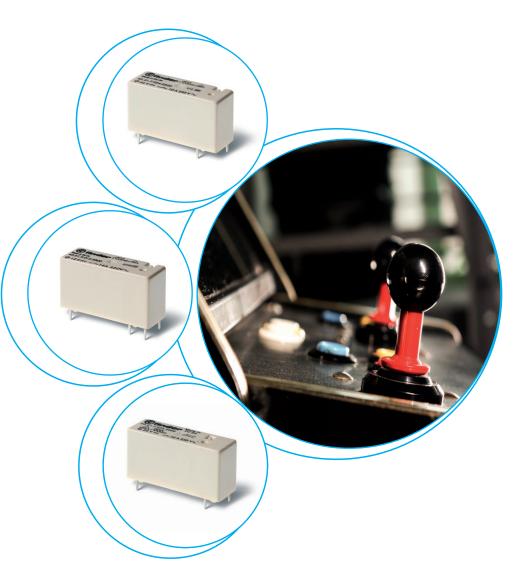
Door and gate openers



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



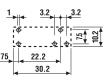
- 5.0 mm contact pin pitch
- 1 Pole NO, 10 A
- PCB mount



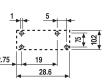
43.61-0300

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

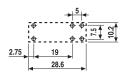












Copper side view

FOR UL RATINGS SEE:

"General technical information" page V

For outline drawing see page 5		Copper side view	Copper side view
Contact specification			
Contact configuration		1 CO (SPDT)	1 NO (SPST-NO)
Rated current/Maximum peak current	Α	10/15	10/15
Rated voltage/			
Maximum switching voltage	V AC	250/400	250/400
Rated load AC1	VA	2500	2500
Rated load AC15 (230 V AC)	VA	500	500

1 CO (SPDT)	1 NO (SPST-NO)	1 NO (SPST-NO)
10/15	10/15	16/25

contact configuration		1 60 (51 51)	1110 (31 31 110)	1110 (31 31 110)	
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	_	_	_	

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
Operate/release time	ms	6/4	6/2	6/2
1 1 1 1 1 1				

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

RT II

EFI W CAN US A Approvals (according to type)

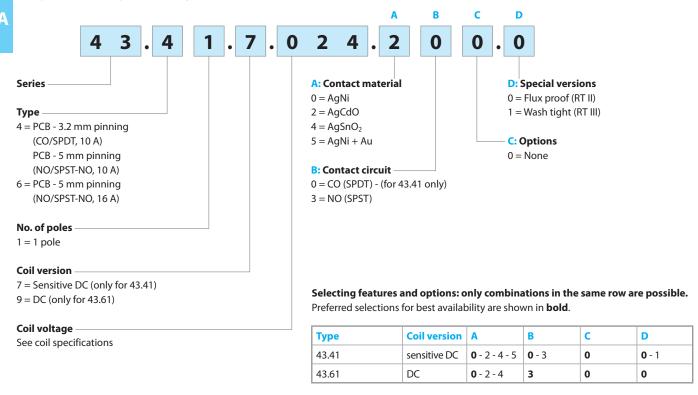
Environmental protection

RT II



Ordering information

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

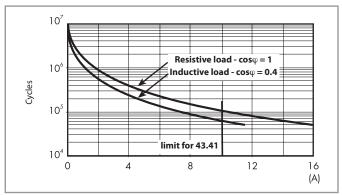


Technical data

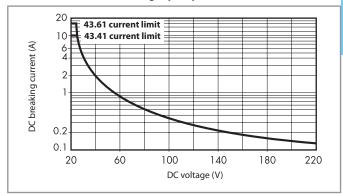
Insulation according to EN 61810-	1			
Nominal voltage of supply system	V AC	230/400		
Rated insulation voltage	V AC	250	400	
Pollution degree		3	2	
Insulation between coil and conta	ct set			
Type of insulation		Reinforced (10 mm)		
Overvoltage category		III		
Rated impulse voltage	kV (1.2/50 μs)	6		
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		

Contact specification

F 43 - Electrical life (AC) v contact current



H 43 - Maximum DC1 breaking capacity



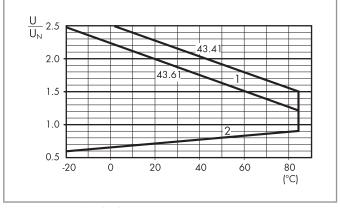
- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of $\geq 100 \cdot 10^3$ for 43.41 and \geq 50 · 10³ for 43.61 can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical 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 con data 0.25 W Schsitve (type 45.41)					
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
18 24 36	7 .018 7 .024 7 .036	13 16.8 25.2	27 36 54	1300 2200 5200	13.8 10.9 6.9

R 43 - DC coil operating range v ambient temperature



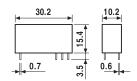
- 1 Max. permitted coil voltage.
- 2 Min. pick-up voltage with coil at ambient temperature.

DC coil data - 0.4 W standard (type 43.61)

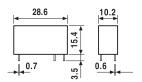
Nominal voltage	Coil code	Operating range		Resistance	Rated coil consumption
U _N		U_{min}	U _{max}	R	I at U _N
V		V	V	Ω	mA
12	9 .012	8.4	14.4	360	33.3
24	9 .024	16.8	28.8	1400	17.1
48	9 .048	33.6	57.6	5760	8.3

Outline drawings

Type 43.41



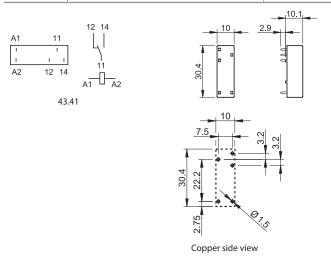
Types 43.41-0300/43.61-0300







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)	099	5.43	
Technical data	al data		
Rated values	10 A - 250 V	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:

