

Ordering information

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

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

A

B

C

D

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 (5 µm)

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**.

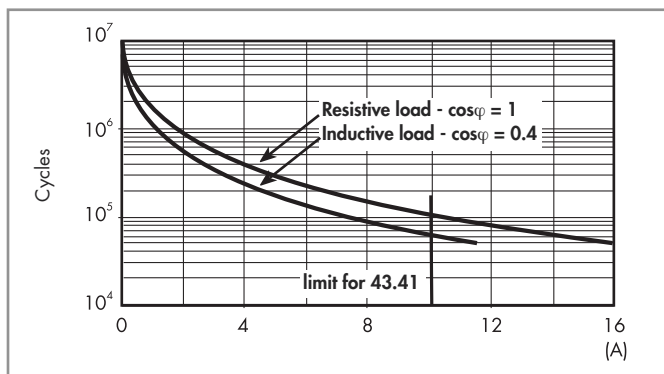
Type	Coil version	A	B	C	D
43.41	sensitive DC	0 - 2 - 4 - 5	0 - 3	0	0 - 1
43.61	DC	0 - 2 - 4	3	0	0

Technical data

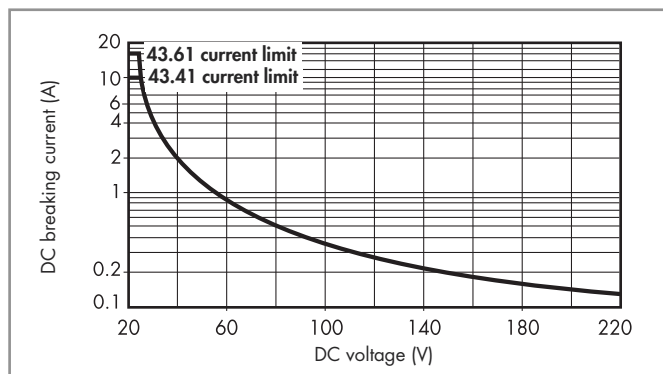
Insulation according to EN 61810-1					
Nominal voltage of supply system		V AC	230/400		
Rated insulation voltage		V AC	250	400	
Pollution degree			3	2	
Insulation between coil and contact set					
Type of insulation			Reinforced (10 mm)		
Overvoltage category			III		
Rated impulse voltage		kV (1.2/50 µs)	6		
Dielectric strength		V AC	4,000		
Insulation between open contacts					
Type of disconnection			Micro-disconnection		
Dielectric strength		V AC/kV (1.2/50 µs)	1,000/1.5		
Conducted disturbance immunity					
Burst (5...50)ns, 5 kHz, on A1 - A2			EN 61000-4-4	level 4 (4 kV)	
Surge (1.2/50 µs) on A1 - A2 (differential mode)			EN 61000-4-5	level 3 (2 kV)	
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		

Contact specification

F 43 - Electrical life (AC) v contact current



H 43 - Maximum DC1 breaking capacity



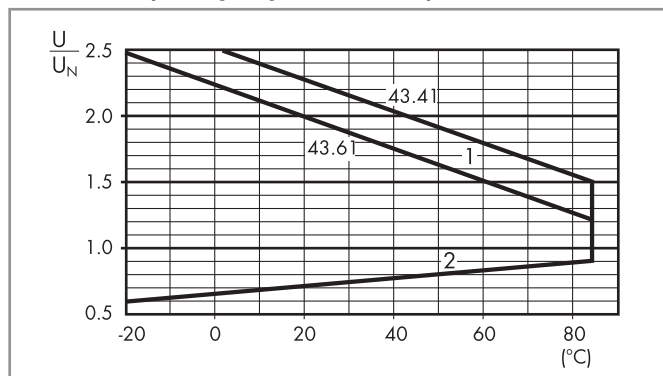
- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of $\geq 100 \cdot 10^3$ for 43.41 and $\geq 50 \cdot 10^3$ for 43.61 can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical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

Nominal voltage U_N	Coil code	Operating range		Resistance	Rated coil consumption
V		U_{min} V	U_{max} V	R Ω	I at U_N 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	1,300	13.8
24	7.024	16.8	36	2,200	10.9
36	7.036	25.2	54	5,200	6.9
48	7.048	33.6	72	9,200	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 U_N	Coil code	Operating range		Resistance	Rated coil consumption
V		U_{min} V	U_{max} V	R Ω	I at U_N mA
12	9.012	8.4	14.4	360	33.3
24	9.024	16.8	28.8	1,400	17.1
48	9.048	33.6	57.6	5,760	8.3