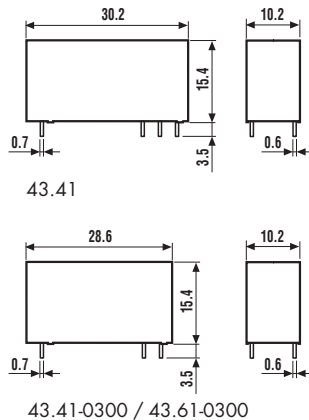


- 15.4 mm high
- Very low coil consumption, only 250 mW
- 10 mm, 6 kV (1.2/50 μ s) between coil and contacts
- Ambient temperature + 85 °C
- Sockets: see type 95.23



* For 400 V applications, where requirements for pollution degree 2 are met.

	43.41	43.41-0300	43.61-0300
	- 1 CO (SPDT), 10 A - 3.2 mm pinning - P.C.B. mounting or sockets 95 series	- 1 NO (SPST-NO), 10 A - 5 mm pinning - P.C.B. mounting	- 1 NO (SPST-NO), 16 A - 5 mm pinning - P.C.B. mounting
Contact specifications			
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 in AC1 VA	2,500	2,500	4,000
Rated load in AC15 (230 V AC) VA	500	500	750
Single phase motor rating (230 V AC) kW	—	—	—
Breaking capacity in 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	AgCdO	AgCdO	AgCdO
Coil specifications			
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 according to EN 61810-1 ed. 2	4 kV/3	4 kV/3	4 kV/3
Insulation between coil and contacts (1.2/50 μ s) kV	6 (10 mm)	6 (10 mm)	6 (10 mm)
Dielectric strength between open contacts V AC	1,000	1,000	1,000
Ambient temperature range °C	−40...+85	−40...+85	−40...+85
Environmental protection	RT II	RT II	RT II
Approvals (according to type):		GOST	

ORDERING INFORMATION

Example: a 43 series low-profile P.C.B. relay with 1 CO contact (SPDT), with coil rated 24 V DC.

4 3 . 4 1 . 7 . 0 2 4 . ^A2 ^B0 ^C0 ^D0

Series

Type

4 = P.C.B. - 3.2 mm pinning (CO/SPDT)
 P.C.B. - 5 mm pinning (NO/SPST-NO)
 6 = P.C.B. - 5 mm pinning (16 A)

No. of poles

1 = 1 pole

Coil version

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

Coil voltage

see coil specifications

A: Contact material

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

B: Contact circuit

0 = CO (SPDT)
 3 = NO (SPST)

D: Special versions

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

C: Options

0 = None

Only combinations in the same row are possible

Preferred versions

	coil version	A	B	C	D
43.41	sens. DC	2	0	0	0
43.61	DC	2	3	0	0

All versions

	coil version	A	B	C	D
43.41	sens. DC	2 - 4 - 5	0 - 3	0	0 - 1
43.61	DC	2 - 4	3	0	0

TECHNICAL DATA

INSULATION

Insulation according to EN 61810-1 ed. 2	insulation rated voltage	V	250
	rated impulse withstand voltage	kV	4
	pollution degree		3
	overvoltage category		III

CONDUCTED DISTURBANCE IMMUNITY

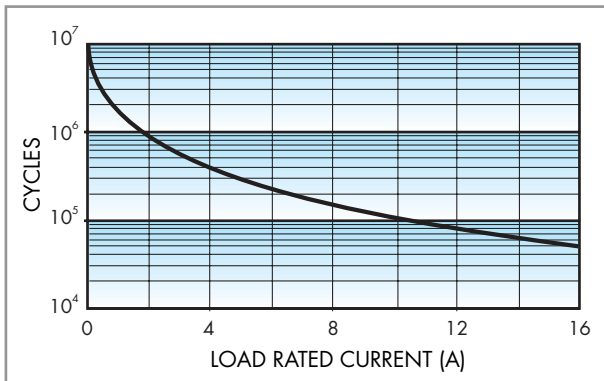
Burst (5...50)ns, 5 kHz, on A1 - A2	EN 61000-4-4	level 4 (4 kV)
Surge (1.2/50 µs) on A1 - A2 (differential mode)	EN 61000-4-5	level 3 (2 kV)

OTHER DATA

Bounce time: NO/NC		ms	3/6	
Vibration resistance (10...55)Hz, max. ± 1 mm: NO/NC		g/g	10/10	
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 P.C.B.s		mm	≥ 5	

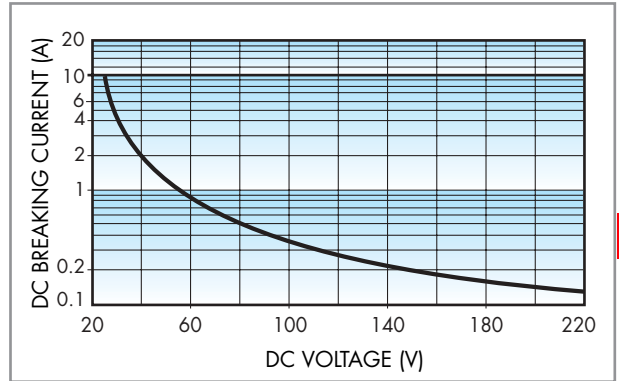
CONTACT SPECIFICATIONS

F 43



Electrical life vs AC1 load.

H 43



Breaking capacity in DC1 load.

- When switching a resistive load (DC1) having voltage and current values under the curve the expected electrical life is $\geq 100 \cdot 10^3$ cycles.
- In case of DC13 loads the connection of a diode in parallel with the load will permit the same electrical life as for a DC1 load.

Note: the release time of load will be increase.

COIL SPECIFICATIONS

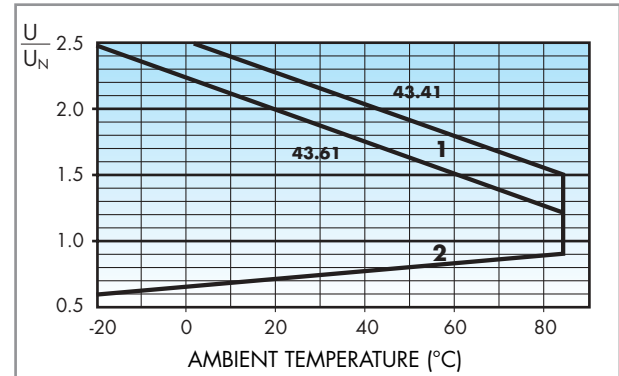
DC VERSION DATA (0.25 W sensitive - Type 43.41)

Nominal voltage U_N	Coil code	Operating range		Resistance	Rated coil consumption I at U_N
V		U_{min} V	U_{max} V	R 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	1,296	13.8
24	7.024	16.8	36	2,200	10.9
36	7.036	25.2	54	5,184	6.9
48	7.048	33.6	72	9,200	5.2

DC VERSION DATA (0.4 W standard - Type 43.61)

Nominal voltage U_N	Coil code	Operating range		Resistance	Rated coil consumption I at U_N
V		U_{min} V	U_{max} V	R Ω	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

R 43 DC



Operating range vs ambient temperature.

1 - Max coil voltage permitted.

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

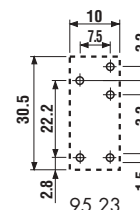
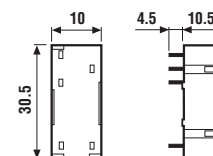
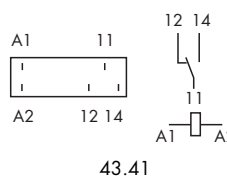


Relay type	43.41	
Colour	BLUE	BLACK
P.C.B. socket (CO/SPDT only) retaining clip 095.43 supplied with socket packaging code SNA	95.23	95.23.0
Metal retaining clip	095.43	

Approvals
(according to type):



- 43** - Rated values: 10 A - 250 V
 - Insulation: ≥ 6 kV (1.2/50 μ s) *between coil and contacts*
 - Protection category: IP 20
 - Ambient temperature: (-40...+70)°C



Copper side view

PACKAGING CODES

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

Code options according to the last three letters:

