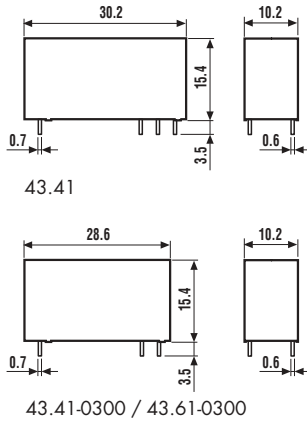


- 15.4 mm high
- Very low coil consumption, only 250 mW
- 10 mm, 6 kV (1.2/50 μs) between coil and contacts
- Ambient temperature + 85 °C
- Sockets: see type 95.23



* 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 |
| | <p>Copper side view</p> | <p>Copper side view</p> | <p>Copper side view</p> |
| 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 μs) 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 . **A** **B** **C** **D**
2 0 0 0

- 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)
- C: Options**
 0 = None
- D: Special versions**
 0 = Flux proof (RT II)
 1 = Wash tight (RT III)

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

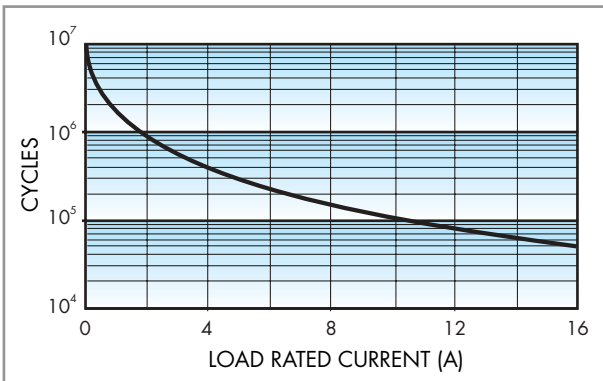
| | | |
|--|--------------|----------------|
| Burst (5...50)ns, 5 kHz, on A1 - A2 | EN 61000-4-4 | level 4 (4 kV) |
| Surge (1.2/50 μs) on A1 - A2 (differential mode) | EN 61000-4-5 | level 3 (2 kV) |

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) |
| | with rated current | W | 1.3 (43.41) |
| | | | 0.4 (43.61) |
| Recommended distance between relays mounted on P.C.B.s | mm | ≥ 5 | |

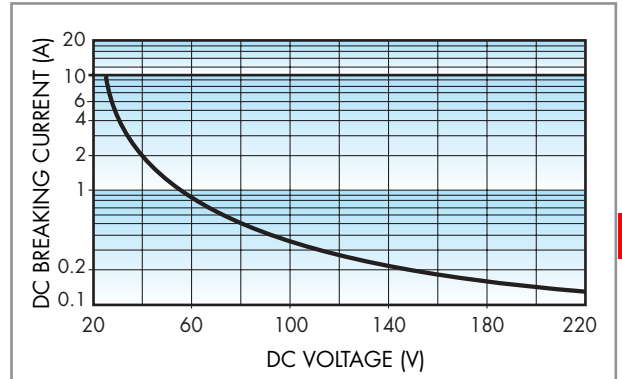
CONTACT SPECIFICATIONS

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

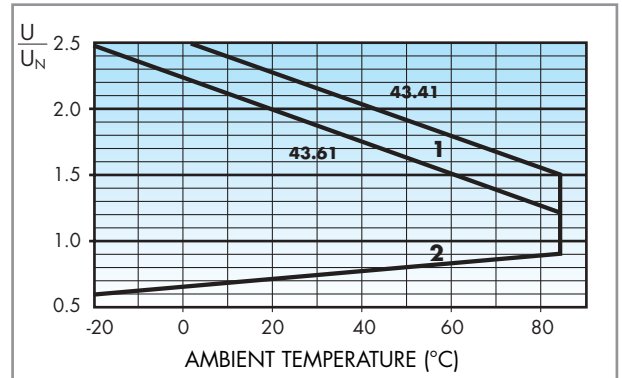
DC VERSION DATA (0.25 W sensitive - Type 43.41)

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



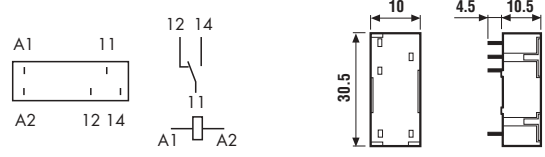
95.23

| | | |
|--|--------------|---------|
| 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 | |

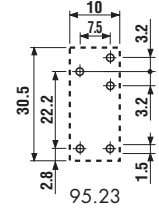
Approvals
(according to type):



- 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



43.41



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:

