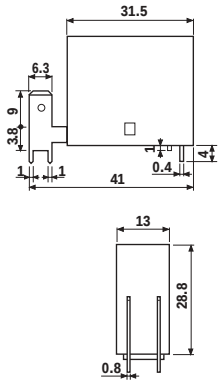
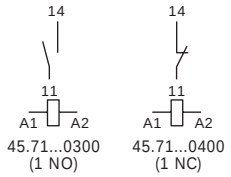
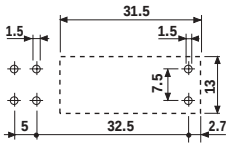
45.71

- *Miniature P.C.B. Faston 250 connect relay*
- *Sensitive DC coil*
- *8 mm, 6 kV (1.2/50 µs) between coil and contacts*
- *Ambient temperature +125°C*
- *NO contact or NC contact version*

- 1 NO or 1 NC
- Max ambient temperature +125°C
- P.C.B. mounting + Faston 250







Copper side view

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

Contact specifications		
Contact configuration		1 NO /1 NC
Rated current / Maximum peak current	A	16 / 30
Rated voltage / Maximum switching voltage	V AC	250 / 400*
Rated load in AC1	VA	4,000
Rated load in AC15 (230 VAC)	VA	750
Single phase motor rating (230 VAC)	kW	0.55
Breaking capacity in DC1: 30 / 110 / 220V	A	16 / 0.3 / 0.13
Minimum switching load	mW (V/mA)	500 (10/5)
Standard contact material		AgCdO
Coil specifications		
Nominal voltage (U_N)	V AC (50/60 Hz)	—
	V DC	6 - 12 - 24 - 48 - 60
Rated power AC / DC	VA (50 Hz) / W	—/0.36
Operating range	AC (50 Hz)	—
	DC	$(0.7...1.2)U_N$
Holding voltage	AC / DC	—/0.4 U_N
Must drop-out voltage	AC / DC	—/0.1 U_N
Technical data		
Mechanical life AC / DC	cycles	$—/30 \cdot 10^6$
Electrical life at rated load AC1	cycles	$100 \cdot 10^3$
Operate / release time (bounce included)	ms	8 / 3
Insulation according to EN 61810-5		3.6 kV / 3
Insulation between coil and contacts (1.2/50µs)	kV	6 (8mm)
Dielectric strength between open contacts	V AC	1,000
Ambient temperature range	°C	–40...+125
Environmental protection		RT II
Approvals: (according to type)		GOST cULus VDE

ORDERING INFORMATION

Example: a 45 series for P.C.B. relay + Faston 250, 1 NO contact, coil rated 12 V DC.

45	.	7	1	.	7	.	012	.	A: 0	B: 3	C: 0	D: 0

Series

Type
7 = P.C.B. - Faston 250

No. of poles
1 = 1 pole, 16 A

Coil version
7 = Sensitive DC

Coil voltage
see coil specifications

A: Contact material
0 = Standard AgCdO

B: Contact circuit
3 = NO
4 = NC

C: Options
0 = None

D: Special versions
0 = Flux proof (RT II)

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TECHNICAL DATA

INSULATION

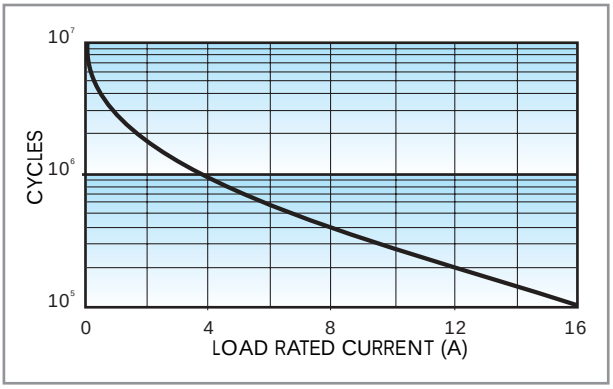
INSULATION according to EN 61810-5	insulation rated voltage	V	250
	rated impulse withstand voltage	kV	3.6
	pollution degree		3
	overvoltage category		III

OTHER DATA

VIBRATION RESISTANCE (10...55Hz): NO/NC		g/g	10/10
POWER LOST TO THE ENVIRONMENT	without contact current	W	0.4
	with rated current	W	1.8
RECOMMENDED DISTANCE between RELAYS mounted on P.C.B.s		mm	≥5

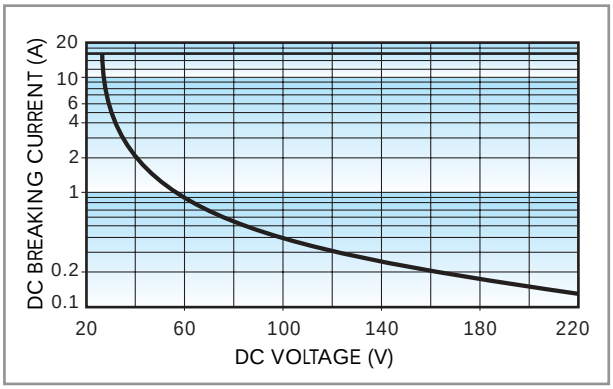
CONTACT SPECIFICATIONS

F 45



Electrical life AC1 load (+85°C).

H 45



Breaking capacity for DC1 load.

- When switching a resistive load (DC1) having voltage and current values under the curve the expected electrical life is ≥ $100 \cdot 10^3$ 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 (0.36 W sensitive)

Nominal voltage U_N	Coil code	Operating range U_{min}	Operating range U_{max}	Resistance R	Rated coil consumption I at U_N
V		V	V	Ω	mA
6	**7**.006	4.2	7.2	100	60
12	**7**.012	8.4	14.4	400	30
24	**7**.024	16.8	28.8	1,600	15
48	**7**.048	33.6	57.6	6,400	7.5
60	**7**.060	42	72	10,000	6

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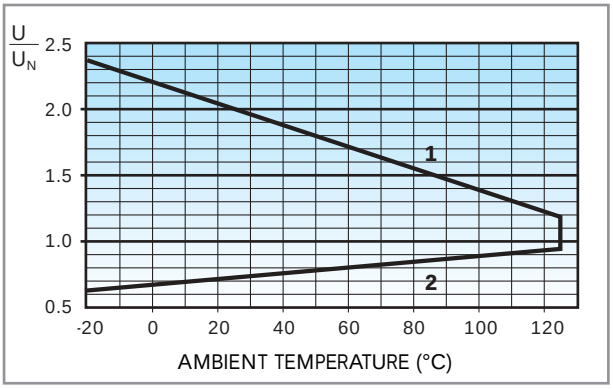
R 45 DC



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