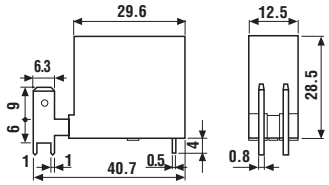
45.71

- *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 (SPST-NO) contact or NC (SPST-NC) contact version*

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



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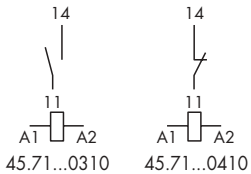
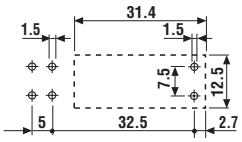




Copper side view

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

Contact specifications		
Contact configuration		1NO or 1NC (SPST-NO or SPST-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 V AC)	VA	750
Single phase motor rating (230 V AC)	kW	0.55
Breaking capacity in DC1: 30/110/220 V	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	—
	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 · 10^6
Electrical life at rated load AC1	cycles	100 · 10^3
Operate/release time	ms	10/2
Insulation according to EN 61810-1 ed. 2		4 kV/3
Insulation between coil and contacts (1.2/50 µs)	kV	6 (8 mm)
Dielectric strength between open contacts	V AC	1,000
Ambient temperature range	°C	–40...+125
Environmental protection		RT II
Approvals (according to type):		GOST

ORDERING INFORMATION

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

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

Series

Type
7 = P.C.B.

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 (SPST)
4 = NC (SPST)

C: Options
1 = None

D: Special versions
0 = Flux proof (RT II)
1 = Wash tight (RT III)

45

Only combinations in the same row are possible
All versions

	coil version	A	B	C	D
45.71	sens. DC	0	3 - 4	1	0

TECHNICAL DATA

INSULATION

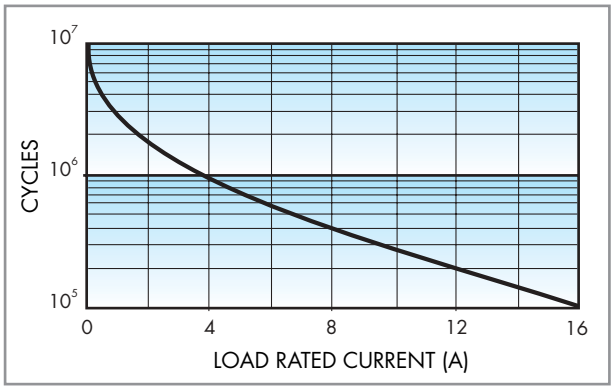
Insulation according to EN 61810-1 ed. 2	insulation rated voltage	V	250
	rated impulse withstand voltage	kV	4
	pollution degree		3
	overvoltage category		III

OTHER DATA

Bounce time: NO/NC		ms	3/— (for 1NO or SPST-NO)	—/3 (for 1NC or SPST-NC)
Vibration resistance (10...55)Hz, max. ± 1 mm: 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	

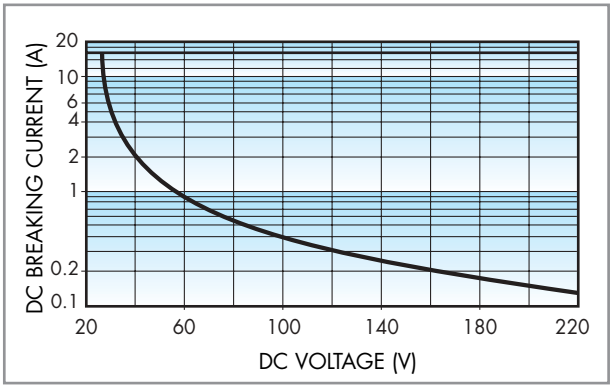
CONTACT SPECIFICATIONS

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.

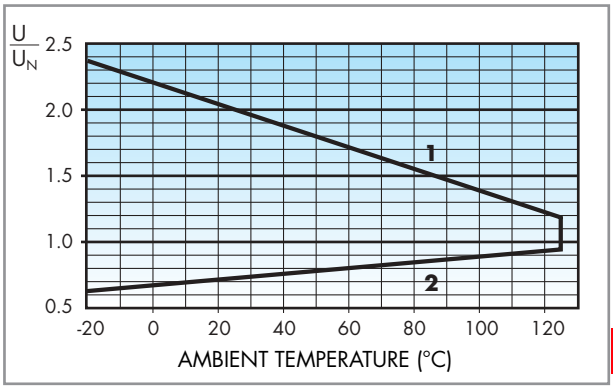
Note: the release time of load will be increase.

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

R 45 DC



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