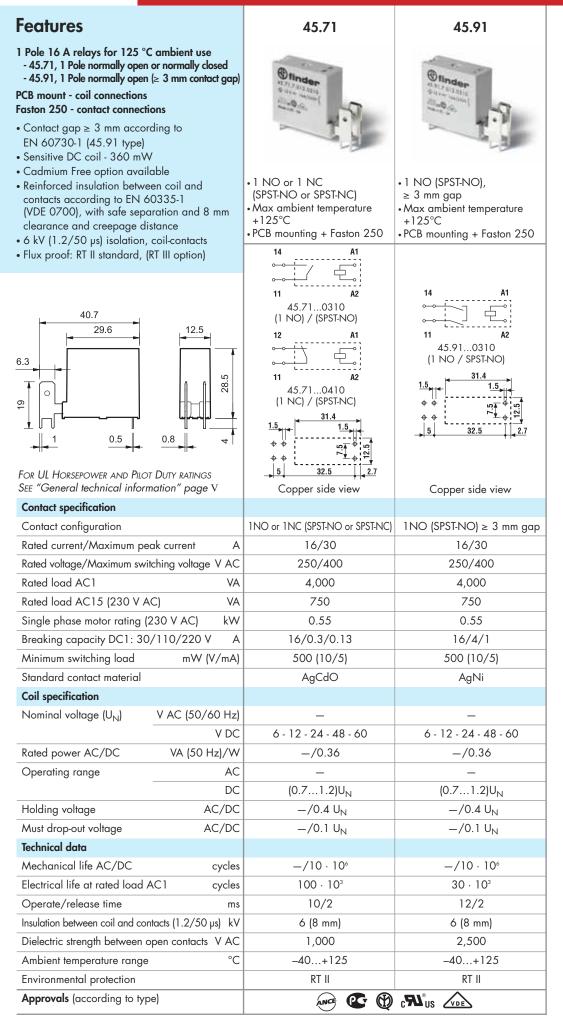
## finder

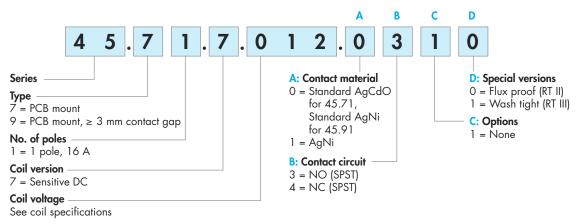
### 45 Series - Miniature PCB relays 16 A



# finder

## Ordering information

Example: 45 series for PCB relay + Faston 250, 1 NO (SPST-NO), 12 V DC coil.



Selecting features and options: only combinations in the same row are possible.

Туре	Coil version	Α	В	С	D
45.71	sensitive DC	0 - 1	3 - 4	1	0 - 1
45.91	sensitive DC	0	3	1	0 - 1

### **Technical data**

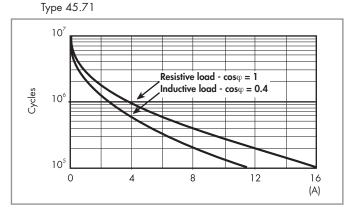
#### Insulation according to EN 61810-1

Insulation according to EN 01810-	I					
			45	.71	45	.91
Nominal voltage of supply system	V A	AC 1	230/400		230/400	
Rated insulation voltage	V A	AC 1	250	400	250	400
Pollution degree			3	2	3	2
Insulation between coil and contact	set					
Type of insulation			Reinforced (8 mm)		Reinforced (8 mm)	
Overvoltage category					III	
Rated impulse voltage kV (1.2/50 µs)		µs)	6		6	
Dielectric strength V AC			4,000		4,000	
Insulation between open contacts						
Type of disconnection			Micro-disconnection		Full-disconnection	
Overvoltage category			—		III	
Rated impulse voltage kV (1.2/50 µs		µs)	_		4	
Dielectric strength V AC/kV (1.2/50 µs)		µs)	1,000/1.5		2,500/4	
Conducted disturbance immunity						
Burst (550)ns, 5 kHz, on A1 - A2			EN 61000-4-4		level 4 (4 kV)	
Surge (1.2/50 µs) on A1 - A2 (diff		EN 61000-4-5		level 3 (2 kV)		
Other data		45.71		45.91		
Bounce time: NO/NC ms			3/3		2/—	
Vibration resistance (10150)Hz:	g	20/10 20/-		20/—		
Shock resistance	g	20				
Power lost to the environment	without contact current	W	0.4			
	with rated current W		1.8			
Recommended distance between re	nm i	≥5				

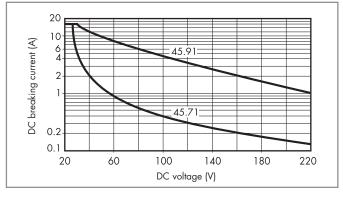


#### **Contact specification**

#### F 45 - Electrical life (AC) v contact current



H 45 - Maximum DC1 breaking capacity



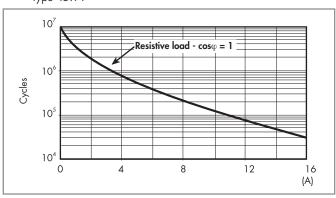
- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of ≥ 100·10<sup>3</sup> cycles (45.71) and ≥ 30·10<sup>3</sup> cycles (45.91) can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load. Note: the release time for the load will be increased.

### **Coil specifications**

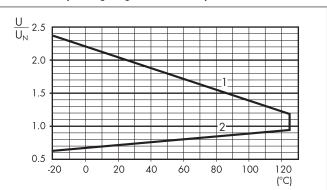
#### DC coil data - 0.36 W sensitive

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

F 45 - Electrical life (AC) v contact current Type 45.91



R 45 - DC coil operating range v ambient temperature



1 - Max. permitted coil voltage.

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

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