

Technical data

Insulation according to EN 61810-1

		1 pole		2 pole	
Nominal voltage of supply system	V AC	230/400		230/400	
Rated insulation voltage	V AC	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		III	
Rated impulse voltage	kV (1.2/50 μ s)	6		6	
Dielectric strength	V AC	4000		4000	

Insulation between adjacent contacts

Type of insulation		—	Basic
Overvoltage category		—	III
Rated impulse voltage	kV (1.2/50 μ s)	—	4
Dielectric strength	V AC	—	2000

Insulation between open contacts

Type of disconnection		Micro-disconnection	Micro-disconnection
Dielectric strength	V AC/kV (1.2/50 μ s)	1000/1.5	1000/1.5

Conducted disturbance immunity

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

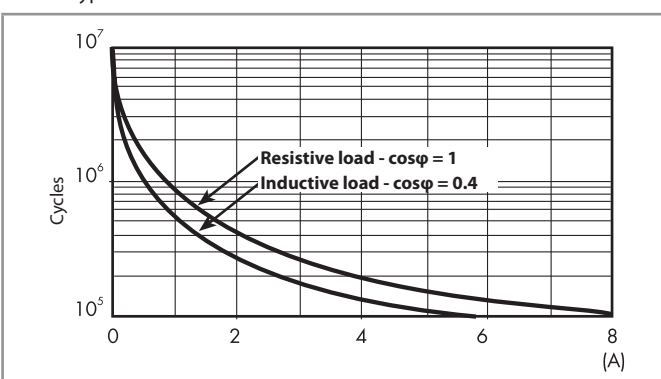
Other data

		46.61	46.52
Bounce time: NO/NC	ms	2/6	1/4
Vibration resistance (10...150)Hz: NO/NC	g	20/12	20/15
Shock resistance	g	20	20
Power lost to the environment	without contact current	W 0.6	0.6
	with rated current	W 1.6	2
Recommended distance between relays mounted on PCB	mm	≥ 5	

Contact specification

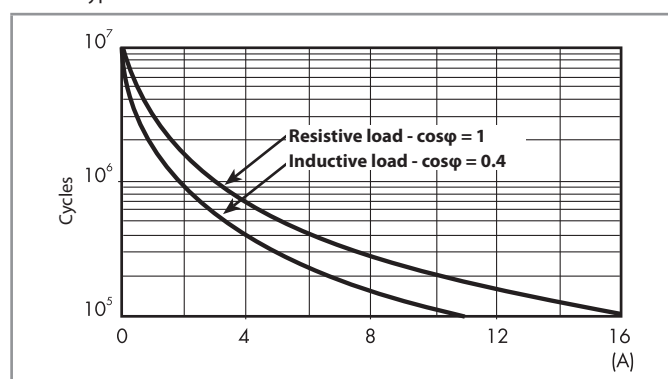
F 46 - Electrical life (AC) v contact current

Type 46.52

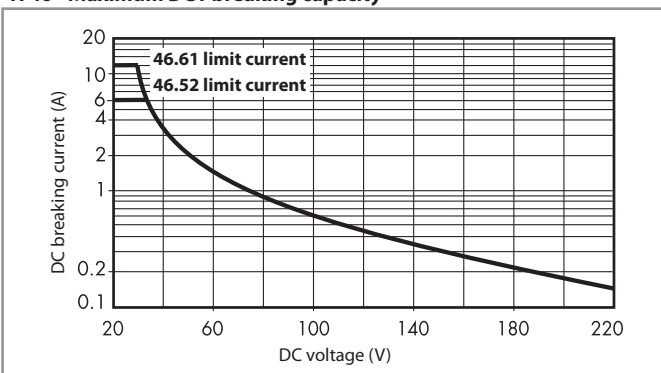


F 46 - Electrical life (AC) v contact current

Type 46.61



H 46 - Maximum DC1 breaking capacity



- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of $\geq 100 \cdot 10^3$ 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

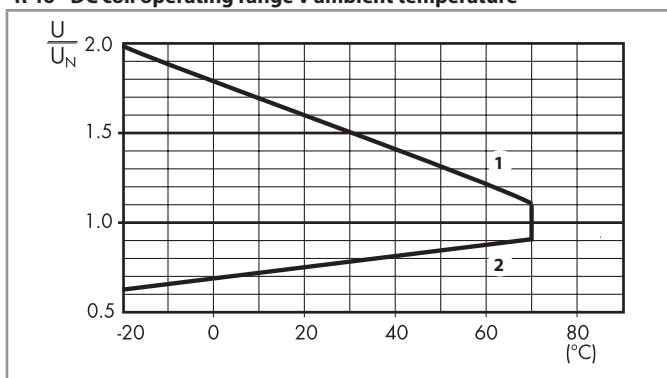
DC coil data

Nominal voltage U_N	Coil code	Operating range		Resistance R	Rated coil consumption I at U_N
V		U_{min} V	U_{max} V	Ω	mA
12	9.012	8.8	13.2	300	40
24	9.024	17.5	26.4	1200	20
48	9.048	35	52.8	4800	10
110	9.110	80	121	23500	4.7
125	9.125	91.2	138	32000	3.9

AC coil data

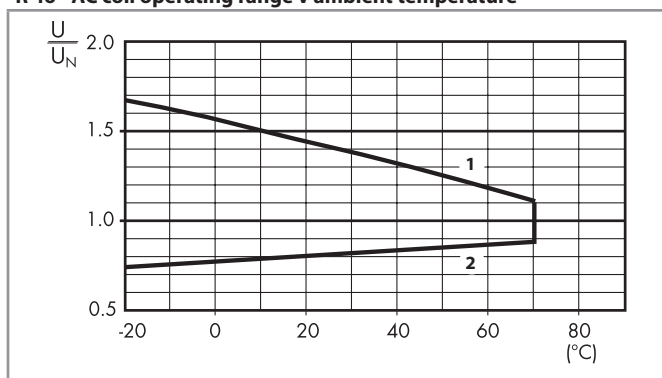
Nominal voltage U_N	Coil code	Operating range		Resistance R	Rated coil consumption I at U_N
V		U_{min} V	U_{max} V	Ω	mA
12	8.012	9.6	13.2	80	90
24	8.024	19.2	26.4	320	45
48	8.048	38.4	52.8	1350	21
110	8.110	88	121	6900	9.4
120	8.120	96	132	9000	8.4
230	8.230	184	253	28000	5
240	8.240	192	264	31500	4.1

R 46 - DC coil operating range v ambient temperature



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

R 46 - AC coil operating range v ambient temperature



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