

Miniature PCB relays 10 A



Burners, boilers and
furnaces



Jacuzzis and hot tubs



Washing machines



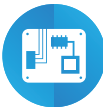
Hi-Fi systems



Refrigerators



Automation for
blinds, grilles and
shutters



Electronic circuit
boards



Electronic kits



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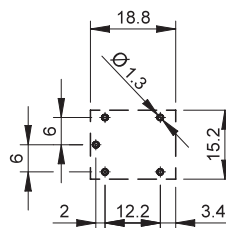
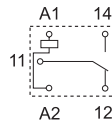
Printed circuit mount 10 A relay

- New smaller size
- 1 Pole changeover contacts
- Miniature - "Sugar cube" package
- DC coil - 360 mW
- Wash tight: RT III
- Cadmium Free contact material
- RoHS conform

36.11-4011



- 1 CO (SPDT), 10 A
- Sugar cube size
- PCB mount



Copper side view

For outline drawing see page 5

Contact specification

Contact configuration		1 CO (SPDT)
Rated current/Maximum peak current	A	10/15 (NO) - 5/10 (NC)
Rated voltage/Maximum switching voltage	V AC	250/277
Rated load AC1	VA	2500 (NO) - 1250 (NC)
Rated load AC15 (230 V AC)	VA	500 (NO)
Single phase motor rating (230 V AC)	kW	0.37 (NO)
Breaking capacity DC1: 28 V	A	10 (NO)
Minimum switching load	mW (V/mA)	500 (5/100)
Standard contact material		AgSnO ₂

Coil specification

Nominal voltage (U _N)	V AC (50/60 Hz)	—
	V DC	3 - 5 - 6 - 9 - 12 - 18 - 24 - 48
Rated power AC/DC	VA (50 Hz)/W	—/0.36
Operating range	AC	—
	DC	(0.75...1.3)U _N
Holding voltage	AC/DC	—/0.5 U _N
Must drop-out voltage	AC/DC	—/0.1 U _N

Technical data

Mechanical life AC/DC	cycles	—/10 · 10 ⁶
Electrical life at rated load AC1	cycles	50 · 10 ³
Operate/release time	ms	10/5
Insulation between coil and contacts (1.2/50 µs)	kV	4
Dielectric strength between open contacts	V AC	750
Ambient temperature range	°C	−40...+85
Environmental protection		RT III

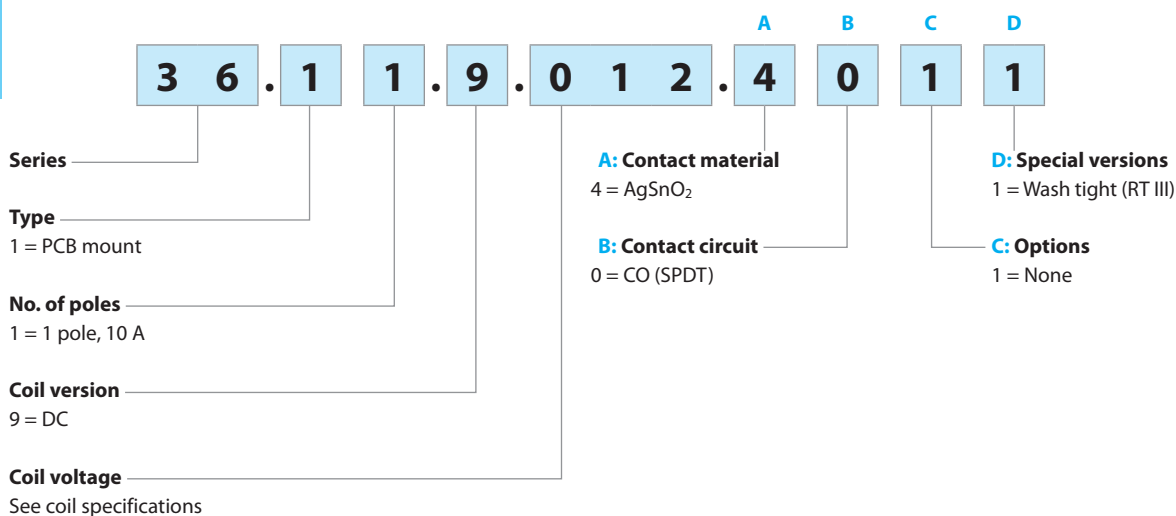
Approvals (according to type)



Ordering information

Example: 36 series miniature PCB relay, 1 CO (SPDT) - 10 A contacts, 12 V DC coil.

A



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

Preferred selections for best availability are shown in **bold**.

Type	Coil version	A	B	C	D
36.11	DC	4	0	1	1

Technical data

Insulation according to EN 61810-1

Nominal voltage of supply system	V AC	230/400
Rated insulation voltage	V AC	250
Pollution degree		2

Insulation between coil and contact set

Type of insulation		Basic
Overvoltage category		II
Rated impulse voltage	kV (1.2/50 µs)	4
Dielectric strength	V AC	2500

Insulation between open contacts

Type of disconnection		Micro-disconnection
Dielectric strength	V AC/kV (1.2/50 µs)	750/1.5

Insulation between coil terminals

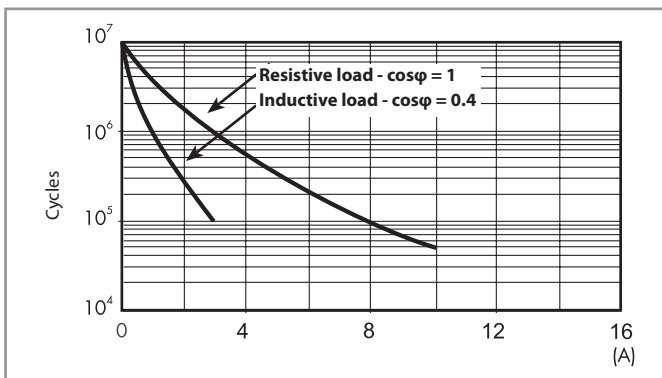
Rated impulse voltage (according to EN 61180)	kV (1.2/50 µs)	2
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Other data

Shock resistance	g	10
Bounce time: NO/NC	ms	1/6
Vibration resistance (5...55 Hz): NO/NC	g	14/8
Power lost to the environment		
without contact current	W	0.4
with rated current	W	1.4
Recommended distance between relays mounted on PCB	mm	≥ 5

Contact specification

F 36 - Electrical life (AC) v contact current

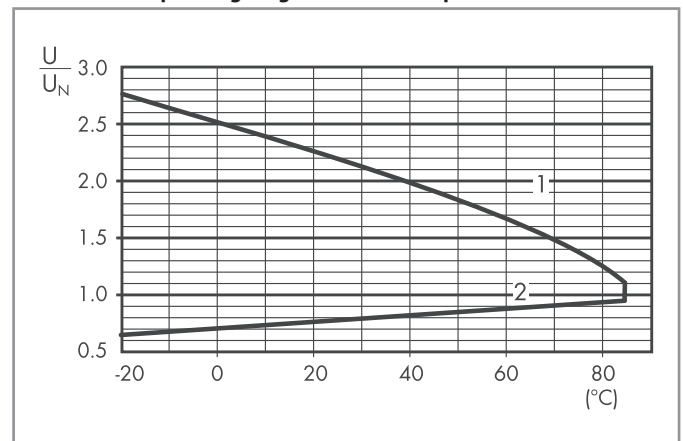


Coil specifications

DC coil data

Nominal voltage U_N	Coil code	Operating range		Resistance	Rated coil consumption
V		U_{min} V	U_{max} V	R Ω	I at U_N mA
3	9.003	2.2	3.9	25	120
5	9.005	3.7	6.5	70	72
6	9.006	4.5	7.8	100	60
9	9.009	6.7	11.7	225	40
12	9.012	9	15.6	400	30
18	9.018	13.5	23.4	900	20
24	9.024	18	31.2	1600	15
48	9.048	36	62.4	6400	7.5

R 36 - DC coil operating range v ambient temperature



1 - Max. permitted coil voltage.

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

Outline drawing

Type 36.11-4011

