Features

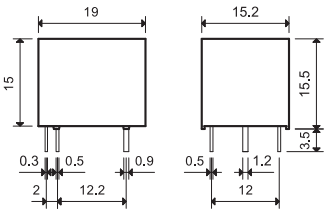
Printed circuit mount 10 A relay

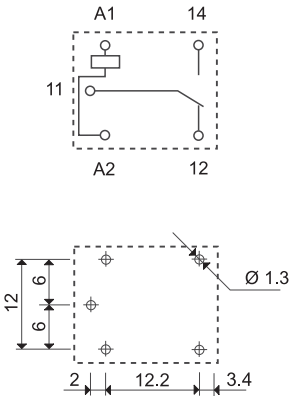
- New smaller size
- 1 Pole changeover contacts
- Miniature - "Sugar cube" package
- DC coil - 360 mW
- Wash tight: RT III
- Cadmium Free contact material
- RoHS conform

36.11-4011



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





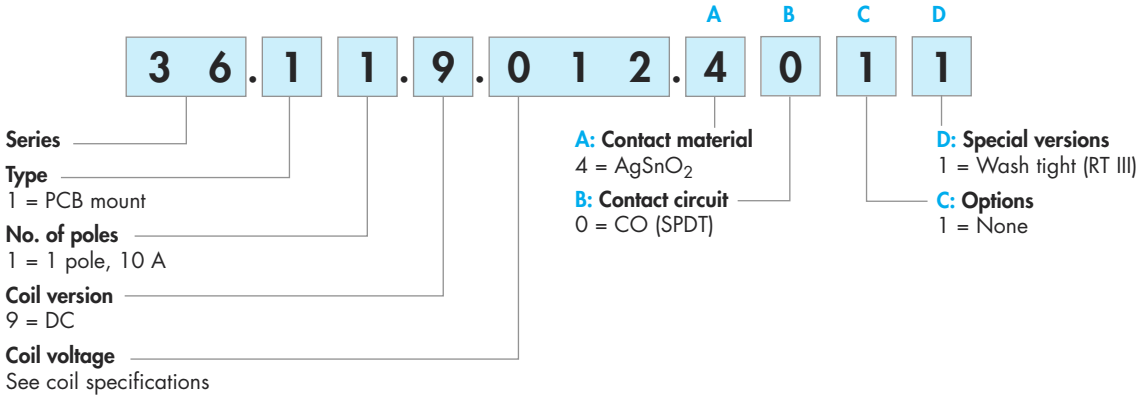
Copper side view

Contact specification		
Contact configuration		1 CO (SPDT)
Rated current/Maximum peak current	A	10/15
Rated voltage/Maximum switching voltage	V AC	250/250
Rated load AC1	VA	2,500
Rated load AC15 (230 V AC)	VA	500
Single phase motor rating (230 V AC)	kW	0.37
Breaking capacity DC1: 30/110/220 V	A	10/0.3/0.12
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	–/0.4 U_N
Must drop-out voltage	AC/DC	–/0.1 U_N
Technical data		
Mechanical life AC/DC	cycles	$–/10 \cdot 10^6$
Electrical life at rated load AC1	cycles	$50 \cdot 10^3$
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)		cULus VDE

Ordering information

A

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



Selecting features and options: only combinations in the same row are possible.
Preferred selections for best availability are shown in **bold.**

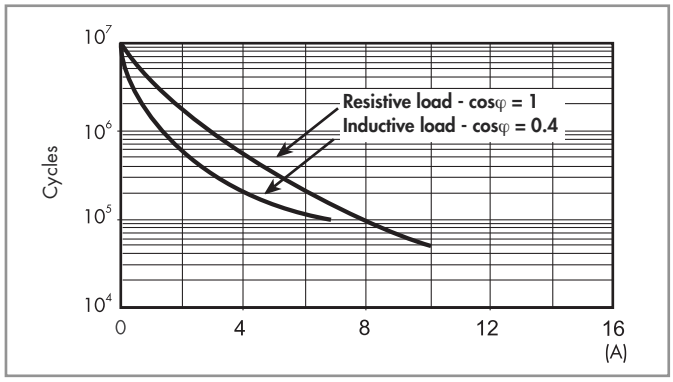
Type	Coil version	A	B	C	D
36.11	DC	**4**	**0**	**1**	**1**

Technical data

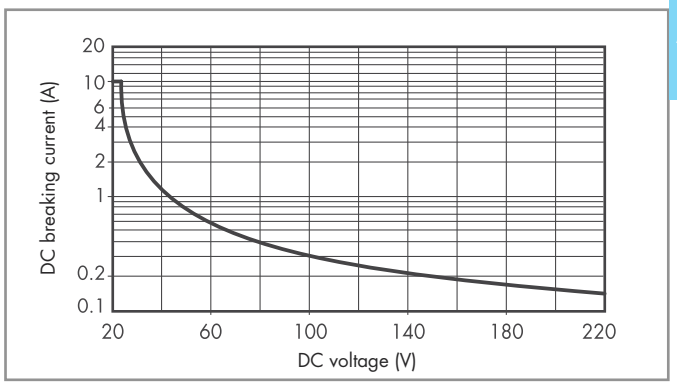
Insulation according to EN 61810-1			
Nominal voltage of supply system		V AC	230/400
Rated insulation voltage		V AC	250
Pollution degree			2
Insulation between coil and contact set			
Type of insulation			Basic
Overvoltage category			II
Rated impulse voltage		kV (1.2/50 µs)	4
Dielectric strength		V AC	2,500
Insulation between open contacts			
Type of disconnection			Micro-disconnection
Dielectric strength		V AC/kV (1.2/50 µs)	750/1.5
Other data			
Shock resistance		g	10
Bounce time: NO/NC		ms	1/6
Vibration resistance (5...55Hz): 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



H 36 - Maximum DC1 breaking capacity



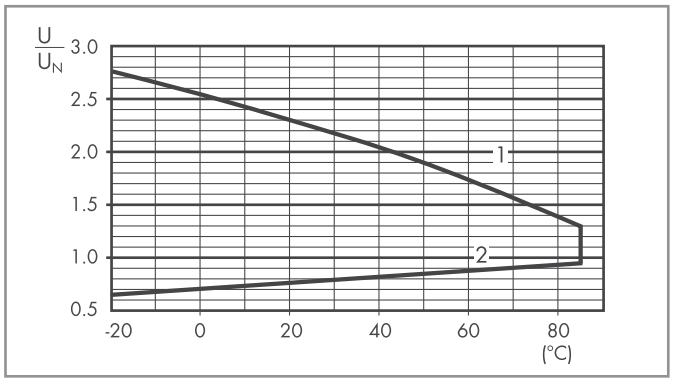
- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of ≥ 50·10³ can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load. Note: the release time for the load will be increased.

Coil specifications

DC coil data

Nominal voltage U_N	Coil code	Operating range U_{min}	Operating range U_{max}	Resistance R	Rated coil consumption I at U_N
V		V	V	Ω	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	1,600	15
48	**9**.048	36	62.4	6,400	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.