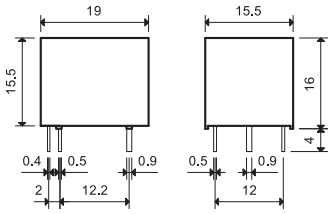
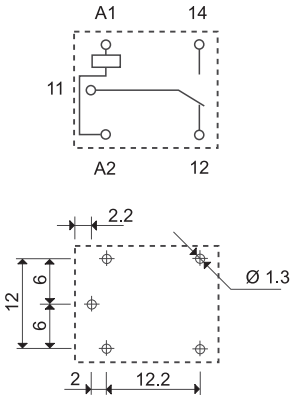
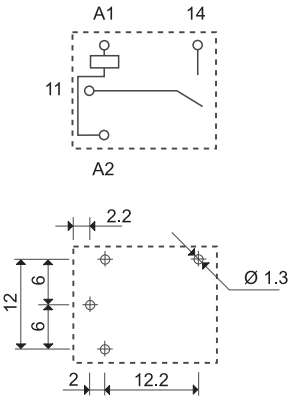
Features

Printed circuit mount 10 A relay

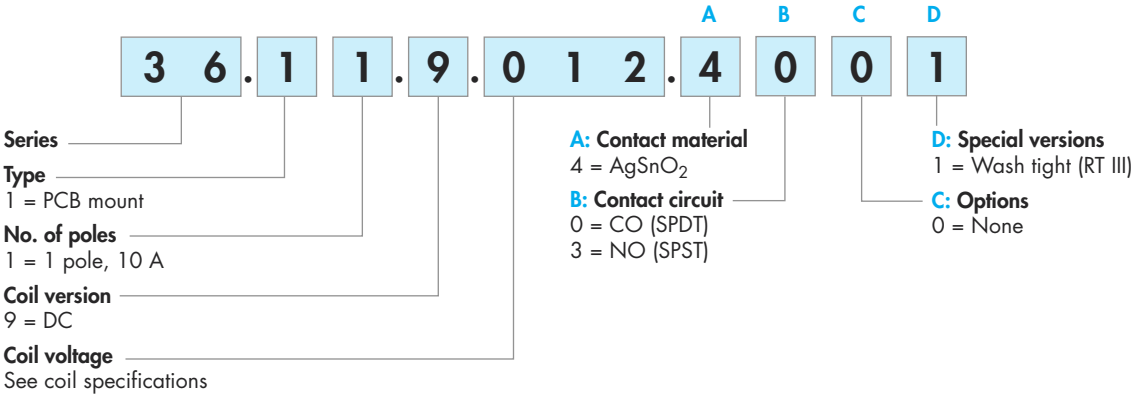
- New smaller size
- 1 Pole changeover contacts or 1 Pole normally open contact
- Miniature - "Sugar cube" package
- DC coil - 360 mW
- Wash tight: RT III
- Cadmium Free contact material
- RoHS conform



	36.11-4001	36.11-4301
		
	• 1 CO (SPDT), 10 A • Sugar cube size • PCB mount	• 1 NO (SPST-NO), 10 A • Sugar cube size • PCB mount
	 Copper side view	 Copper side view
Contact specification		
Contact configuration	1 CO (SPDT)	1 NO (SPST-NO)
Rated current/Maximum peak current A	10/15	10/15
Rated voltage/Maximum switching voltage V AC	250/250	250/250
Rated load AC1 VA	2,500	2,500
Rated load AC15 (230 V AC) VA	500	500
Single phase motor rating (230 V AC) kW	0.37	0.37
Breaking capacity DC1: 30/110/220 V A	10/0.3/0.12	10/0.3/0.12
Minimum switching load mW (V/mA)	500 (5/100)	500 (5/100)
Standard contact material	$AgSnO_2$	$AgSnO_2$
Coil specification		
Nominal voltage (U_N) V AC (50/60 Hz)	–	–
V DC	3 - 5 - 6 - 9 - 12 - 24 - 48	3 - 5 - 6 - 9 - 12 - 24 - 48
Rated power AC/DC VA (50 Hz)/W	–/0.36	–/0.36
Operating range AC	–	–
DC	(0.75...1.5)U_N	(0.75...1.5)U_N
Holding voltage AC/DC	–/0.4 U_N	–/0.4 U_N
Must drop-out voltage AC/DC	–/0.1 U_N	–/0.1 U_N
Technical data		
Mechanical life AC/DC cycles	–/10 · 10^6	–/10 · 10^6
Electrical life at rated load AC1 cycles	100 · 10^3	100 · 10^3
Operate/release time ms	9/3	9/2
Insulation between coil and contacts (1.2/50 µs) kV	4	4
Dielectric strength between open contacts V AC	1,000	1,000
Ambient temperature range °C	–40...+85	–40...+85
Environmental protection	RT III	RT III
Approvals (according to type)		

Ordering information

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.**

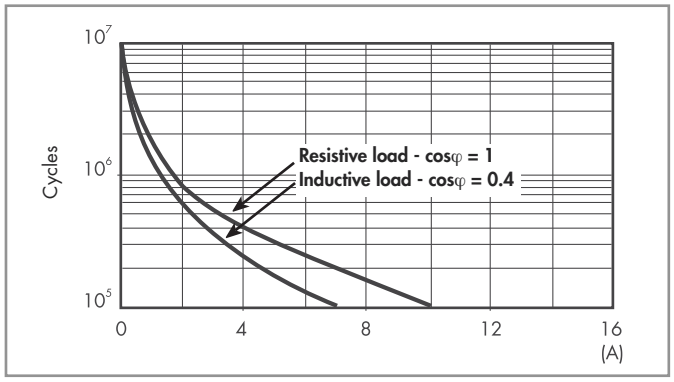
Type	Coil version	A	B	C	D
36.11	DC	**4**	**0** - 3	**0**	**1**

Technical data

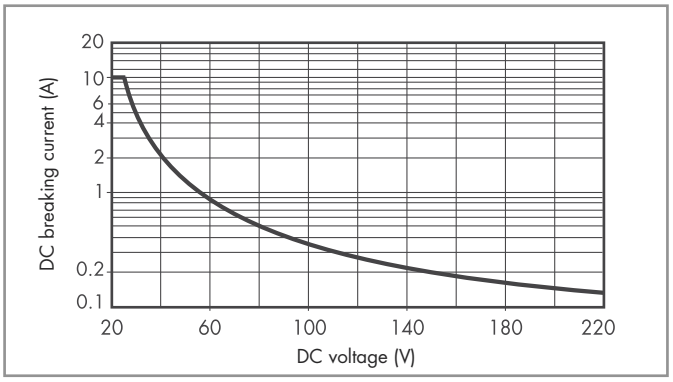
Insulation according to EN 61810-1				
Nominal voltage of supply system		V AC	230/400	
Rated insulation voltage		V AC	250	
Pollution degree			2	
Insulation between coil and contact set				
Type of insulation			Basic	
Overvoltage category			II	
Rated impulse voltage		kV (1.2/50 µs)	2.5	
Dielectric strength		V AC	2,500	
Insulation between open contacts				
Type of disconnection			Micro-disconnection	
Dielectric strength		V AC/kV (1.2/50 µs)	1,000/1.5	
Other data				
Bounce time: NO/NC		ms	1/6 (changeover)	1/— (normally open)
Vibration resistance (5…55)Hz: NO/NC		g	15/15 (changeover)	15/— (normally open)
Shock resistance		g	16	
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



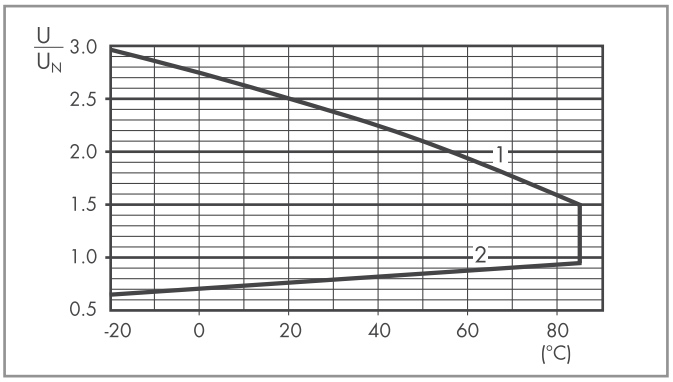
- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of ≥ $100 \cdot 10^3$ can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load. Note: the release time for the load will be increased.

Coil specifications

DC coil data

Nominal voltage U_N	Coil code	Operating range 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	4.5	25	120
5	**9**.005	3.7	7.5	70	72
6	**9**.006	4.5	9	100	60
9	**9**.009	6.7	13.5	225	40
12	**9**.012	9	18	400	30
24	**9**.024	18	36	1,600	15
48	**9**.048	36	72	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.