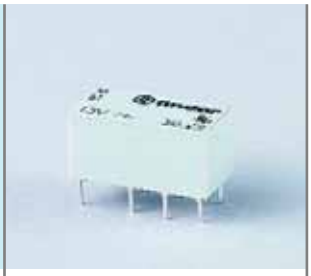
Features

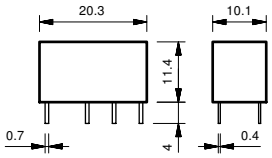
30.22

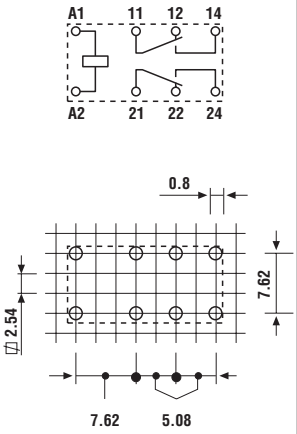
Printed circuit mount
2 A signal relay

- 2 Pole changeover contacts
  Low level switching capability
- Subminiature - industry standard DIL package
- Sensitive DC coil - 200 mW
- Wash tight: RT III
- Cadmium Free contact material



- Low coil power
- Au clad contacts
- PCB mount



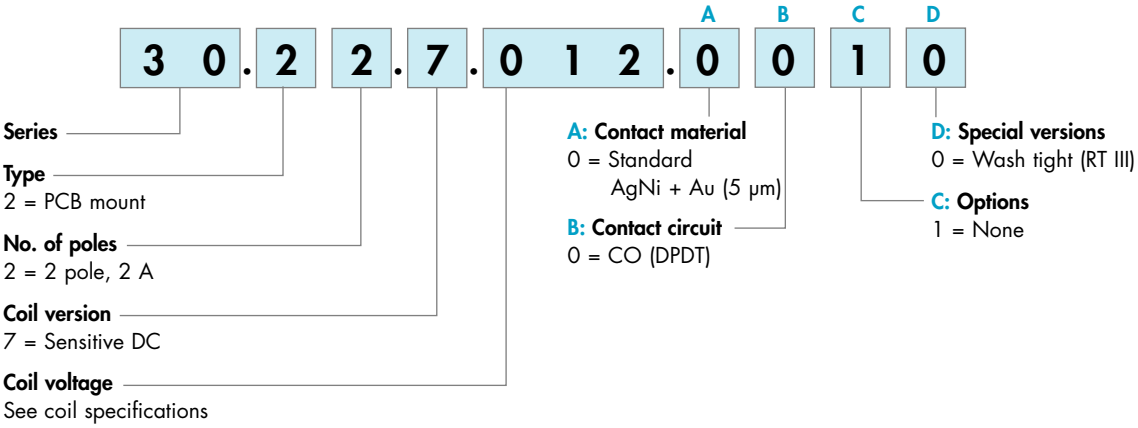


Copper side view

Contact specification		
Contact configuration		2 CO (DPDT)
Rated current/Maximum peak current	A	2/3
Rated voltage/Maximum switching voltage	V AC	125/250
Rated load AC1	VA	125
Rated load AC15 (230 V AC)	VA	25
Single phase motor rating (230 V AC)	kW	—
Breaking capacity DC1: 30/110/220 V	A	2/0.3/—
Minimum switching load	mW (V/mA)	10 (0.1/1)
Standard contact material		AgNi + Au
Coil specification		
Nominal voltage (U_N)	V AC (50/60 Hz)	—
	V DC	5 - 6 - 9 - 12 - 24 - 48
Rated power AC/DC	VA (50 Hz)/W	—/0.2
Operating range	AC	—
	DC	See table page 3
Holding voltage	AC/DC	—/0.35 U_N
Must drop-out voltage	AC/DC	—/0.05 U_N
Technical data		
Mechanical life AC/DC	cycles	—/10 · 10^6
Electrical life at rated load AC1	cycles	100 · 10^3
Operate/release time	ms	6/2
Insulation between coil and contacts (1.2/50 µs)	kV	1.5
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: 30 series PCB relay, 2 CO (DPDT) - 2 A contacts, 12 V sensitive DC coil.

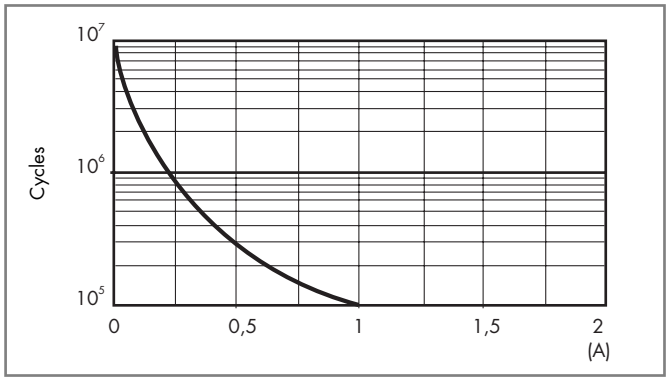


Technical data

Insulation according to EN 61810-1:2004				
Nominal voltage of supply system		V AC	230/400	120...240 single phase
Rated insulation voltage		V AC	250	125
Pollution degree			1	2
Insulation between coil and contact set				
Type of insulation			Basic	Basic
Overvoltage category			I	II
Rated impulse voltage		kV (1.2/50 µs)	1.5	1.5
Dielectric strength		V AC	1,000	1,000
Insulation between adjacent contacts				
Type of insulation			Basic	Basic
Overvoltage category			I	II
Rated impulse voltage		kV (1.2/50 µs)	1.5	1.5
Dielectric strength		V AC	1,500	1,500
Insulation between open contacts				
Type of disconnection			Micro-disconnection	Micro-disconnection
Dielectric strength		V AC/kV (1.2/50 µs)	750/1	750/1
Other data				
Bounce time: NO/NC			ms	1/3
Vibration resistance (5...55)Hz: NO/NC			g	15/15
Shock resistance			g	16
Power lost to the environment	without contact current		W	0.2
	with rated current		W	0.4
Recommended distance between relays mounted on PCB			mm	≥ 5

Contact specification

F 30 - Electrical life (AC1) v contact current (125 V)



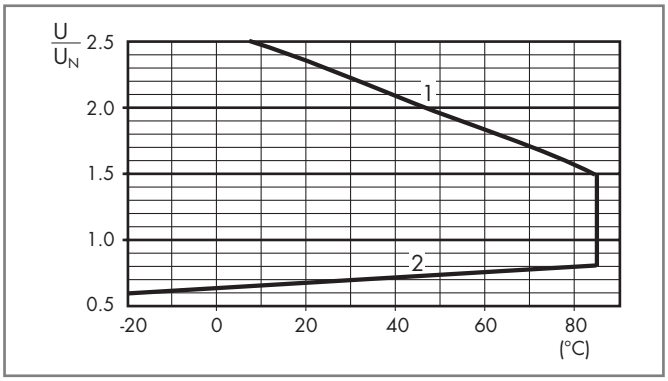
Note:
The rated current of 2 A corresponds to the limiting continuous current.

Coil specifications

DC coil data - 0.2 W sensitive

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
5	**7**.005	3.7	7.5	125	40
6	**7**.006	4.5	9	180	33
9	**7**.009	6.7	13.5	405	22
12	**7**.012	8.4	18	720	16
24	**7**.024	16.8	36	2,880	8.3
48	**7**.048	36	72	11,520	4.1

R 30 - DC coil operating range v ambient temperature



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