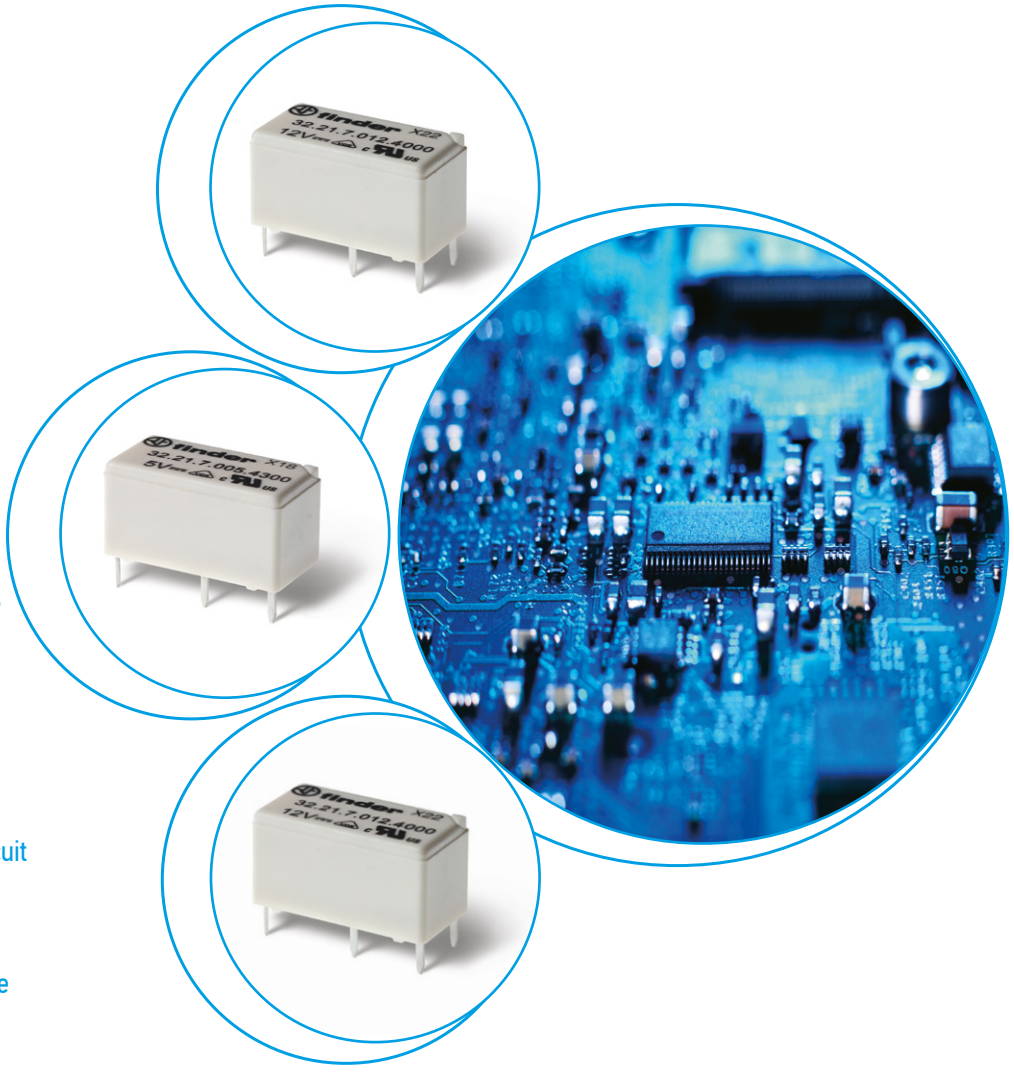
finder
RELAYING INNOVATION

32
SERIES

Subminiature PCB relays 6 A

- Copiers
- Hi-Fi systems
- Washing machines
- Control systems
- Electronic kits
- Medical and dentistry
- Electronic circuit boards
- Programmable controllers



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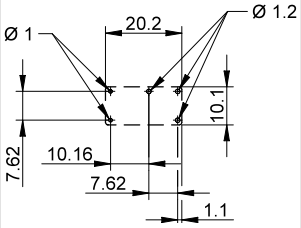
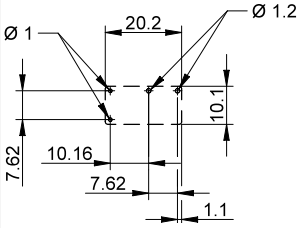
Printed circuit mount 6 A relay • 1 Pole changeover contacts or 1 Pole normally open contact • Subminiature, low profile package • Sensitive DC coil - 200 mW • Wash tight: RT III • Cadmium Free contacts	**32.21-4000**  • 1 CO (SPDT), 6 A • Low coil power • PCB mount	**32.21-4300**  • 1 NO (SPST-NO), 6 A • Low coil power • PCB mount
	  Copper side view	  Copper side view
For outline drawing see page 5		

Contact specification			
Contact configuration		1 CO (SPDT)	1 NO (SPST-NO)
Rated current/Maximum peak current	A	6/15	6/15
Rated voltage/ Maximum switching voltage	V AC	250/400	250/400
Rated load AC1	VA	1500	1500
Rated load AC15 (230 V AC)	VA	250	250
Single phase motor rating (230 V AC)	kW	0.185	0.185
Breaking capacity DC1: 24/110/220 V	A	3/0.35/0.2	3/0.35/0.2
Minimum switching load	mW (V/mA)	500 (10/5)	500 (10/5)
Standard contact material		$AgSnO_2$	$AgSnO_2$
Coil specification			
Nominal voltage (U_N)	V AC (50/60 Hz)	—	—
	V DC	5 - 12 - 24 - 48	5 - 12 - 24 - 48
Rated power AC/DC	VA (50 Hz)/W	—/0.2	—/0.2
Operating range	AC	—	—
	DC	(0.78…1.5)U_N	(0.78…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	—/20 · 10^6	—/20 · 10^6
Electrical life at rated load AC1	cycles	50 · 10^3	50 · 10^3
Operate/release time	ms	6/4	6/2
Insulation between coil and contacts (1.2/50 µs)	kV	6	6
Dielectric strength between open contacts	V AC	1000	1000
Ambient temperature range	°C	–40…+85	–40…+85
Environmental protection		RT III	RT III
Approvals (according to type)			

Ordering information

A

Example: 32 series PCB, 1 NO (SPDT-NO) - 6 A contacts, 24 V sensitive DC coil.

									A		B		C	D
3	2	.	2	1	.	7	.	0 2 4	.	4	.	3	.	0	.	0

Series

Type
2 = PCB mount

No. of poles
1 = 1 pole, 6 A

Coil version
7 = Sensitive DC

Coil voltage
See coil specifications

A: Contact material
4 = Standard $AgSnO_2$

B: Contact circuit
0 = CO (SPDT)
3 = NO (SPST)

C: Options
0 = None

D: Special versions
0 = Wash tight (RT III)

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

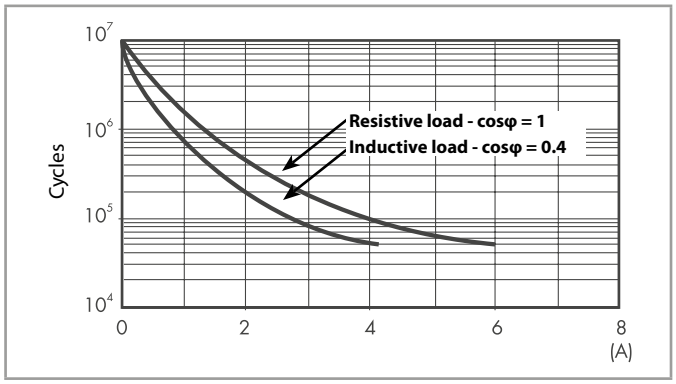
Type	Coil version	A	B	C	D
32.21	sens. DC	**4**	**0 - 3**	**0**	**0**

Technical data

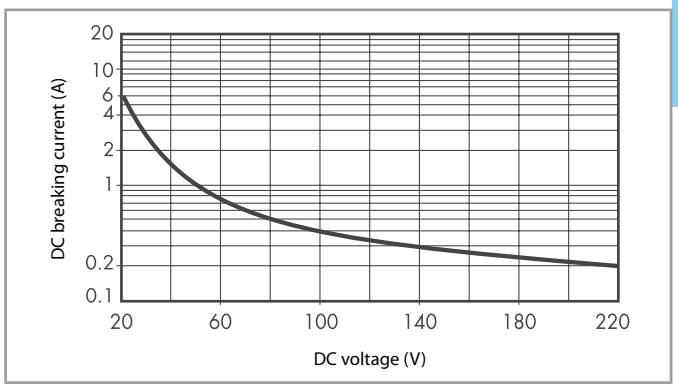
Insulation according to EN 61810-1				
Nominal voltage of supply system		V AC	230/400	
Rated insulation voltage		V AC	250	
Pollution degree			2	
Insulation between coil and contact set				
Type of insulation			Reinforced	
Overvoltage category			III	
Rated impulse voltage		kV (1.2/50 µs)	6	
Dielectric strength		V AC	4000	
Insulation between open contacts				
Type of disconnection			Micro-disconnection	
Dielectric strength		V AC/kV (1.2/50 µs)	1000/1.5	
Insulation between coil terminals				
Rated impulse voltage (surge) differential mode (according to EN 61000-4-5)		kV (1.2/50 µs)	2	
Other data				
Bounce time: NO/NC		ms	2/10 (changeover)	2/— (normally open)
Vibration resistance (5…55)Hz: NO/NC		g	10/10 (changeover)	10/— (normally open)
Shock resistance		g	20	
Power lost to the environment	without contact current	W	0.2	
	with rated current	W	0.5	
Recommended distance between relays mounte d on PCB		mm	≥ 5	

Contact specification

F 32 - Electrical life (AC) v contact current



H 32 - Maximum DC1 breaking capacity



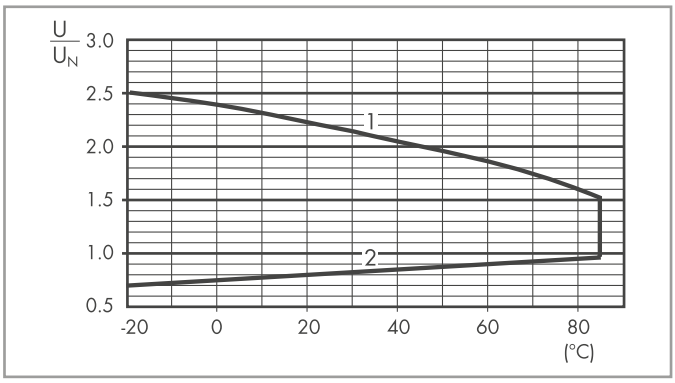
- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of ≥ $50 \cdot 10^3$ can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load.
  Note: the release time for the load will be increased.

Coil specifications

DC coil data - 0.2 W sensitive

Nominal voltage	Coil code	Operating range		Resistance	Rated coil consumption
U_N		U_{min}	U_{max}	R	I at U_N
V		V	V	Ω	mA
5	**7**.005	3.9	7.5	125	40
12	**7**.012	9.4	18	720	16
24	**7**.024	18.7	36	2880	8.3
48	**7**.048	37.4	72	11520	4

R 32 - DC coil operating range v ambient temperature



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

Outline drawing

Types 32.21-4000/4300

