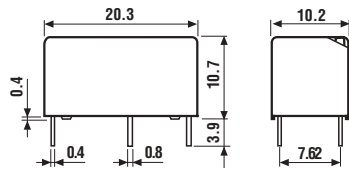


- Sensitive DC version
- Low profile
- NO (SPST-NO) version available
- Wash tight: RT III

### 32.21-x000

### 32.21-x300



<p>- 1 CO (SPDT), 6 A - P.C.B. mounting</p>	<p>- 1 NO (SPST-NO), 6 A - P.C.B. mounting</p>
Copper side view	Copper side view

Contact specifications			
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 in AC1	VA	1,500	1,500
Rated load in AC15 (230 V AC)	VA	250	250
Single phase motor rating (230 V AC)	kW	0.185	0.185
Breaking capacity in DC1: 30/110/220 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		AgCdO	AgCdO
Coil specifications			
Nominal voltage (U <sub>N</sub> )	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 <sub>N</sub>	(0.78...1.5)U <sub>N</sub>
Holding voltage	AC/DC	—/0.4 U <sub>N</sub>	—/0.4 U <sub>N</sub>
Must drop-out voltage	AC/DC	—/0.1 U <sub>N</sub>	—/0.1 U <sub>N</sub>
Technical data			
Mechanical life AC/DC	cycles	—/20 · 10 <sup>6</sup>	—/20 · 10 <sup>6</sup>
Electrical life at rated load AC1	cycles	100 · 10 <sup>3</sup>	100 · 10 <sup>3</sup>
Operate/release time	ms	6/4	6/—
Insulation according to EN 61810-1 ed. 2		4 kV/2	4 kV/2
Insulation between coil and contacts (1.2/50 µs)	kV	5	5
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: a 32 series P.C.B. relay with 1 NO (SPDT-NO) contact 6 A, coil rated at 24 V sensitive DC.

	<b>3</b>	<b>2</b>	<b>.</b>	<b>2</b>	<b>1</b>	<b>.</b>	<b>7</b>	<b>.</b>	<b>0</b>	<b>2</b>	<b>4</b>	<b>.</b>	<b>A</b>	<b>2</b>	<b>B</b>	<b>3</b>	<b>C</b>	<b>0</b>	<b>D</b>	<b>0</b>
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**Series** \_\_\_\_\_

**Type** \_\_\_\_\_  
2 = P.C.B. mounting

**No. of poles** \_\_\_\_\_  
2 = 1 pole, 6 A

**Coil version** \_\_\_\_\_  
7 = Sensitive DC

**Coil voltage** \_\_\_\_\_  
see coil specifications

**A: Contact material**  
2 = Standard AgCdO  
4 = AgSnO<sub>2</sub>

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

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

**C: Options**  
0 = None

Only combinations in the same row are possible

Preferred versions

	coil version	A	B	C	D
32.21	sens. DC	2	0 - 3	0	0

All versions

	coil version	A	B	C	D
32.21	sens. DC	2 - 4	0 - 3	0	0

## TECHNICAL DATA

### INSULATION

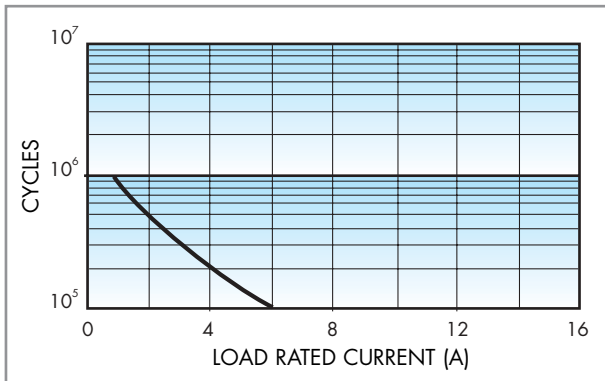
Insulation according to EN 61810-1 ed. 2	insulation rated voltage	V	250
	rated impulse withstand voltage	kV	4
	pollution degree		2
	overvoltage category		III

### OTHER DATA

Bounce time: NO/NC	ms	2/10 (for CO or SPDT)	2/— (for NO or SPST-NO)
Vibration resistance (10...55)Hz, max. ± 1 mm: NO/NC	g/g	10/10 (for CO or SPDT)	10/— (for NO or SPST-NO)
Power lost to the environment	without contact current	W	0.2
	with rated current	W	0.5
Recommended distance between relays mounted on P.C.B.s	mm	≥ 5	

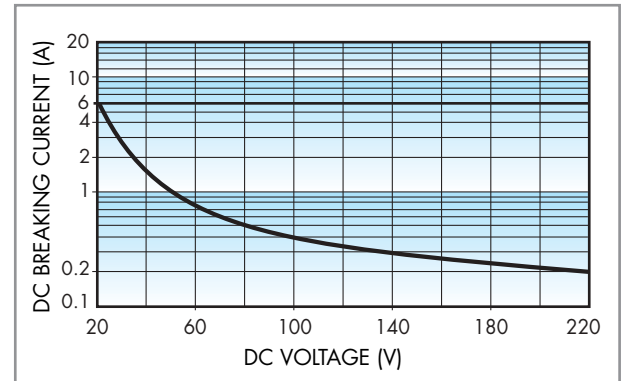
## CONTACT SPECIFICATIONS

F 32



Contact life vs AC1 load.

H 32



Breaking capacity for DC1 load.

- When switching a resistive load (DC1) having voltage and current values under the curve the expected electrical life is  $\geq 100 \cdot 10^3$  cycles.
- In case of DC13 loads the connection of a diode in parallel with the load will permit the same electrical life as for a DC1 load.

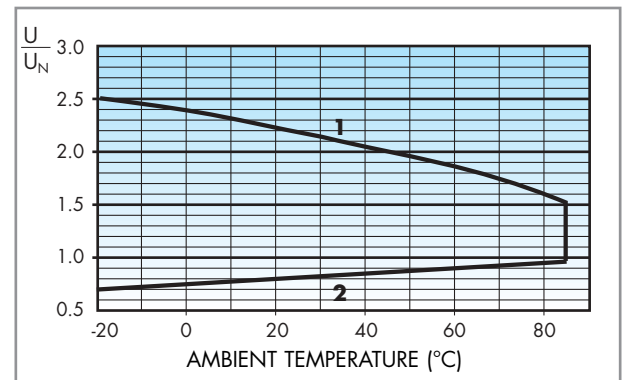
**Note:** the release time of load will be increase.

## COIL SPECIFICATIONS

DC VERSION DATA (0.2 W sensitive)

Nominal voltage $U_N$ V	Coil code	Operating range		Resistance R $\Omega$	Rated coil consumption I at $U_N$ mA
		$U_{min}$ V	$U_{max}$ V		
5	7.005	3.9	7.5	125	40
12	7.012	9.4	18	720	16
24	7.024	18.7	36	2,880	8.3
48	7.048	37.4	72	11,520	4

R 32 DC



Operating range vs ambient temperature.

1 - Max coil voltage permitted.

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

