

Order code	Manufacturer code	Description
60-4087	n/a	32.21 12V DC MINIATURE SPDT 6A RELAY RC

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The enclosed information is believed to be correct, Information may change ±without noticeqdue to	Revision A
product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	20/02/2007

Technical: 01206 835555 Tech@rapidelec.co.uk

32 Series - Subminiature PCB relays 6 A

Features

Inder

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

Contact specification

Contact configuration

Minimum switching load

Standard contact material

Rated load AC1

Coil specification Nominal voltage (U_N)

Rated power AC/DC

Must drop-out voltage Technical data

Mechanical life AC/DC

Operate/release time

Environmental protection

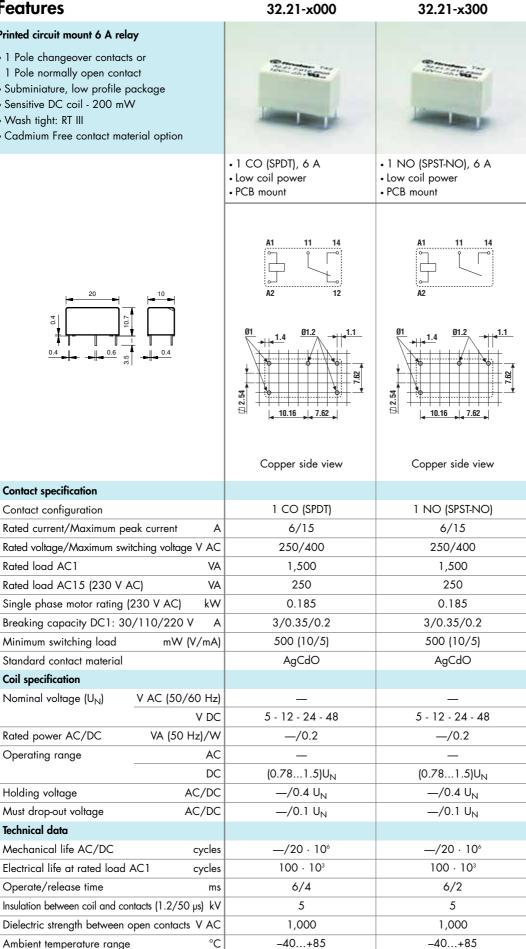
Approvals (according to type)

Operating range

Holding voltage

• Cadmium Free contact material option

0.6



RT III

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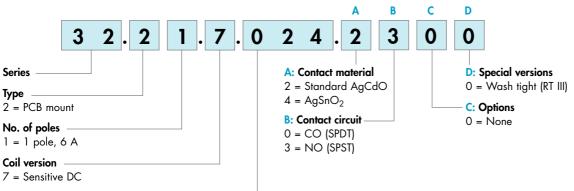
RT III

VDE

finder

Ordering information

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



Coil voltage

See coil specifications

Selecting features and options: only combinations in the same row are possible.

Preferred selections for best availability are shown in bola .						
Туре	Coil version	Α	В	C	D	
32.21	sens. DC	2 - 4	0 - 3	0	0	

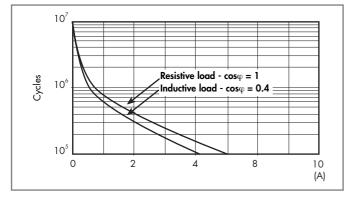
Technical data

Insulation according to EN 61810	-1:2004			
Nominal voltage of supply system	V AC	230/400		
Rated insulation voltage	V AC	250		
Pollution degree		2		
Insulation between coil and conta	ct set			
Type of insulation		Basic		
Overvoltage category		Ш		
Rated impulse voltage	kV (1.2/50 μs)	4		
Dielectric strength	V AC	4,000		
Insulation between open contacts				
Type of disconnection		Micro-disconnection		
Dielectric strength	V AC/kV (1.2/50 µs)	1,000/1.5		
Conducted disturbance immunity				
Burst (550)ns, 5 kHz, on A1 - A	42	EN 61000-4-4	level 4 (4 kV)	
Surge (1.2/50 µs) on A1 - A2 (d	ifferential mode)	EN 61000-4-5	level 3 (2 kV)	
Other data				
Bounce time: NO/NC	ms	2/10 (changeover)	2/— (normally open)	
Vibration resistance (555)Hz: N	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 mounted on PCB mm	≥ 5		

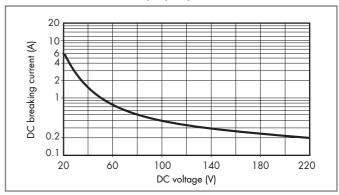


Contact specification

F 32 - Electrical life (AC) v contact current



H 32 - Maximum DC1 breaking capacity



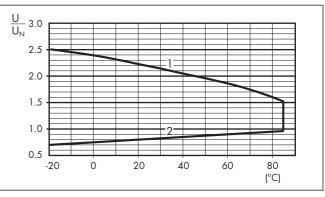
- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of $\ge 100 \cdot 10^3$ can be expected.
- In the case of DC13 loads, the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load. Note: the release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

Coil specifications

DC coil data - 0.2 W sensitive

Nominal	Coil	Operating range		Resistance	Rated coil
voltage	code				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	2,880	8.3
48	7 .048	37.4	72	11,520	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.