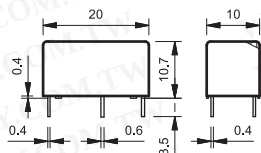


Features

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 contact material option

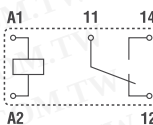
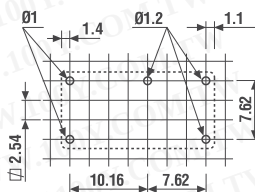
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32.21-x000



- 1 CO (SPDT), 6 A
- Low coil power
- PCB mount

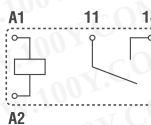
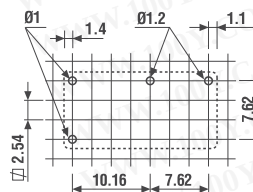


Copper side view

32.21-x300



- 1 NO (SPST-NO), 6 A
- Low coil power
- PCB mount



Copper side view

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 1,500	1,500
Rated load AC15 (230 V AC)	VA 250	250
Single phase motor rating (230 V AC)	kW 0.185	0.185
Breaking capacity 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 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	100 · 10 ³	100 · 10 ³
Operate/release time	ms	6/4	6/2
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: 32 series PCB, 1 NO (SPDT-NO) - 6 A contacts, 24 V sensitive DC coil.

3	2	2	1	7	0	2	4	2	3	0	0
Series			Type			No. of poles			Coil version		
2 = PCB mount			1 = 1 pole, 6 A			7 = Sensitive DC			See coil specifications		
A: Contact material						B: Contact circuit			D: Special versions		
2 = Standard AgCdO						0 = CO (SPDT)			0 = Wash tight (RT III)		
4 = AgSnO ₂						3 = NO (SPST)			C: Options		
									0 = None		

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

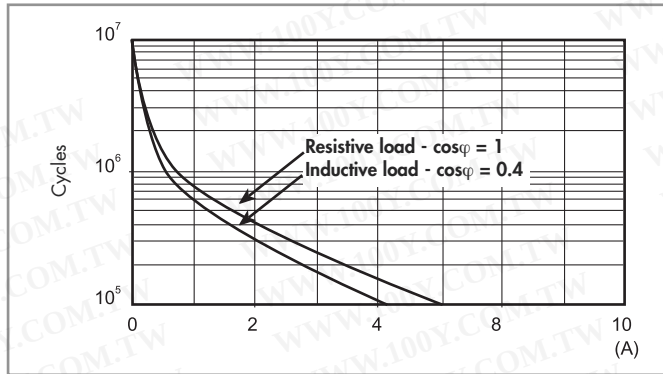
Type	Coil version	A	B	C	D
32.21	sens. DC	2 - 4	0 - 3	0	0

Technical data

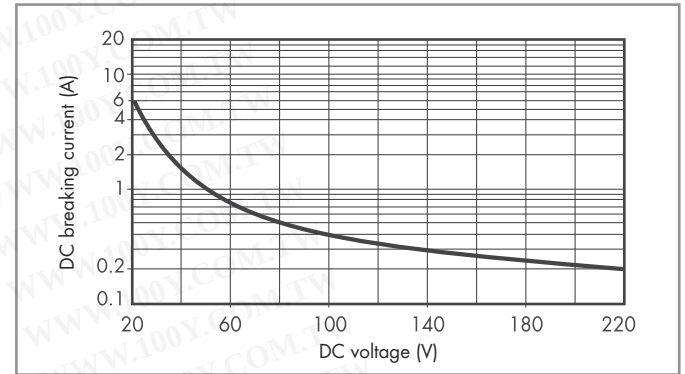
Insulation according to EN 61810-1				
Nominal voltage of supply system		V AC	230/400	
Rated insulation voltage		V AC	250	
Pollution degree			2	
Insulation between coil and contact set				
Type of insulation			Basic	
Overvoltage category			III	
Rated impulse voltage		kV (1.2/50 µs)	5	
Dielectric strength		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 (5...50)ns, 5 kHz, on A1 - A2		EN 61000-4-4	level 4 (4 kV)	
Surge (1.2/50 µs) on A1 - A2 (differential mode)		EN 61000-4-5	level 3 (2 kV)	
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 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 $\geq 100 \cdot 10^3$ 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.

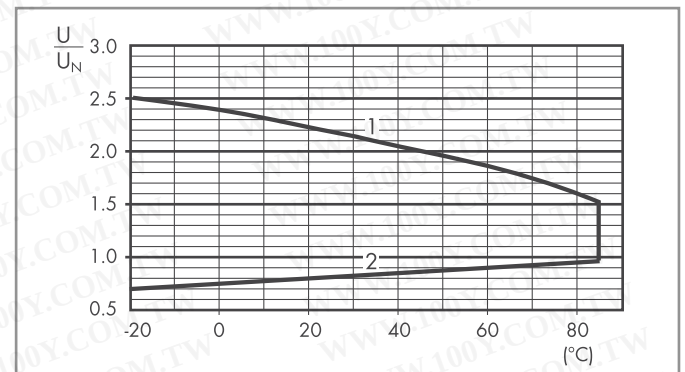
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Coil specifications

DC coil data - 0.2 W sensitive

Nominal voltage U_N	Coil code	Operating range		Resistance	Rated coil consumption I at U_N
V		U_{min} V	U_{max} V	R Ω	I 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.