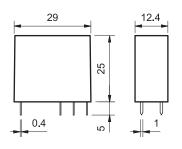


50 Series - Safety relay 8 A

Features

PCB Relay with forcibly guided contacts according to EN 50205 type B 2 CO contacts *

- High physical separation between adjacent contacts
- Cadmium Free contact materials
- 8 mm, 6 kV (1.2/50 µs) isolation, coil-contacts
- Flux proof: RT II



*According to EN 50205 only 1 NO and 1 NC (11-14 and 21-22 or 11-12 and 21-24) shall be used as forcibly guided contacts. FOR UL HORSEPOWER AND PILOT DUTY RATINGS SEE "General technical information" page V

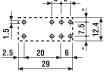
Contact specification			
Contact configuration		2 CO (DPDT)	
Rated current/Maximum peak current	А	8/15	
Rated voltage/Maximum switching voltage V	AC	250/400	
Rated load AC1 VA		2,000	
Rated load AC15 (230 V AC) VA		500	
Single phase motor rating (230 V AC)	0.37		
Breaking capacity DC1: 30/110/220 V	8/0.65/0.2		
Minimum switching load mW (V/n	nA)	300 (5/5)	
Standard contact material	AgNi		
Coil specification			
Nominal voltage (U _N) V AC (50/60	Hz)	_	
V	DC	5 - 6 - 12 - 24 - 48 - 60 - 110 - 125	
Rated power AC/DC VA (50 Hz),	/W	-/0.7	
Operating range AC (50	Hz)	_	
	DC	(0.751.2)U _N	
Holding voltage AC/	DC	-/0.4 U _N	
Must drop-out voltage AC/	DC	—/0.1 U _N	
Technical data			
Mechanical life AC/DC cyc	cles	—/10 · 10°	
Electrical life at rated load AC1 cyc	cles	100 · 10 ³	
Operate/release time ms		10/4	
Insulation between coil and contacts (1.2/50 $\mu s)$	kV	6 (8 mm)	
Dielectric strength between open contacts V	AC	1,500	
Ambient temperature range	°C	-40+70	
Environmental protection		RT II	
Approvals (according to type)		🕲 🛕 c A l [®] us	

C. Land	
Y B	
• 2 Pole 8	

50.12

• 5 mm pinning • PCB mounting



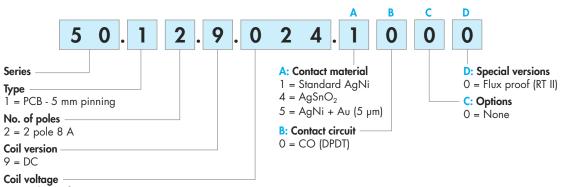


Copper side view

finder

Ordering information

Example: 50 series safety relay, 2 CO (DPDT) 8 A contacts, 24 V DC coil.



See coil specifications

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

Туре	Coil version	Α	В	С	D
50.12	DC	1 - 4 - 5	0	0	0

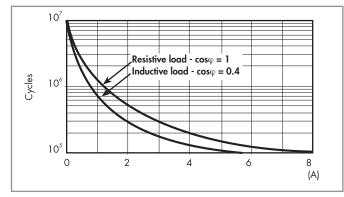
Technical data

Insulation according to EN 61810-1				
Nominal voltage of supply system	V AC	230/400		
Rated insulation voltage	V AC	250 400		
Pollution degree		3 2		
Insulation between coil and contact set				
Type of insulation		Reinforced (8 mm)		
Overvoltage category		III		
Rated impulse voltage	kV (1.2/50 μs)	6		
Dielectric strength	V AC	4,000		
Insulation between adjacent contacts				
Type of insulation		Basic		
Overvoltage category		III		
Rated impulse voltage	kV (1.2/50 μs)	4		
Dielectric strength	V AC	2,500		
Insulation between open contacts				
Type of disconnection		Micro-disconnection		
Dielectric strength	V AC/kV (1.2/50 µs)	1,500/2.5		
Conducted disturbance immunity				
Burst (550)ns, 5 kHz, on A1 - A2		EN 61000-4-4	level 4 (4 kV)	
Surge (1.2/50 µs) on A1 - A2 (differen	ntial mode)	EN 61000-4-5	level 3 (2 kV)	
Other data				
Bounce time: NO/NC	ms	2/10		
Vibration resistance (10200)Hz: NC	D/NC g	20/6		
Shock resistance NO/NC	g	20/5		
Power lost to the environment without contact current W		0.7		
	with rated current W	1.2		
Recommended distance between relay	s mounted on PCB mm	≥ 5		

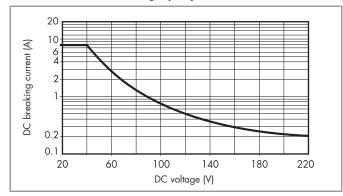


Contact specification

F 50 - Electrical life (AC) v contact current

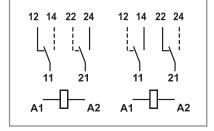


H 50 - Maximum DC1 breaking capacity



 When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of ≥ 100·10³ 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.



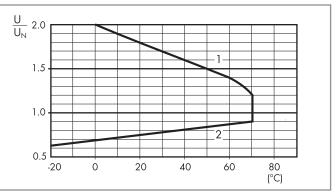
Alternative selection of NO and NC contacts to provide Forcibly guided (mechanically linked) contacts, in accordance with EN 50205 (type B).

Coil specifications

DC coil data

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	9 .005	3.8	6	35	143
6	9 .006	4.5	7.2	50	120
12	9 .012	9	14.4	205	58.5
24	9 .024	18	28.8	820	29.3
48	9 .048	36	57.6	3,280	14.4
60	9 .060	45	72	5,140	11.7
110	9 .110	82.5	131	17,250	6.4
125	9 .125	93.7	150	22,300	5.6

R 50 - DC coil operating range v ambient temperature Standard coil



1 - Max. permitted coil voltage.

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

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 SP10-ETL01
 21-890
 3-1618060-0
 C200HNC112
 C200HOD214
 C500CN812N
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 1100-42X
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 J73KN-AM-22
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 DC12
 G7SA-3A1B
 DC48
 G7SA-2A2B
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