

PCB Relay with forcibly guided contacts according to EN 61810-3 (previously EN 50205) Type B
2 CO contacts*

Type 50.12...1000

- 2 pole 8 A
- Contact AgNi

Type 50.12...5000

- 2 pole 8 A
- Contact AgNi + Au

- 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

50.12...1000

- For medium duty switching, suggested for DC loads
- 2 pole 8 A
- 5 mm pinning
- PCB mounting

50.12...5000

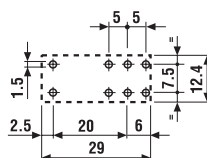
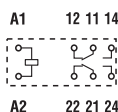
- For safety applications
- Gold plate contacts for low level switching capability
- 5 mm pinning
- PCB mounting

* According to EN 61810-3 only 1 NO and 1 NC (11-14 and 21-22 or 11-12 and 21-24) shall be used as forcibly guided contacts.

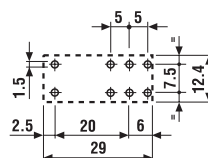
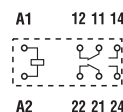
For UL RATINGS SEE:

"General technical information" page V

For outline drawing see page 7



Copper side view



Copper side view

Contact specification

Contact configuration		2 CO (DPDT)	2 CO (DPDT)
Rated current/Maximum peak current	A	8/15	8/15
Rated voltage/ Maximum switching voltage	V AC	250/400	250/400
Rated load AC1	VA	2000	2000
Rated load AC15 (230 V AC)	VA	500	500
Single phase motor rating (230 V AC)	kW	0.37	0.37
Breaking capacity DC1: 30/110/220 V	A	8/0.65/0.2	8/0.65/0.2
Minimum switching load	mW (V/mA)	500 (10/10)	50 (5/5)
Standard contact material		AgNi	AgNi + Au

Coil specification

Nominal voltage (U_N)	V AC (50/60 Hz)	—	—
	V DC	5 - 6 - 12 - 24 - 48 - 60 - 110 - 125	5 - 6 - 12 - 24 - 48 - 60 - 110 - 125
Rated power AC/DC	VA (50 Hz)/W	—/0.7	—/0.7
Operating range	AC (50 Hz)	—	—
	DC	$(0.75 \dots 1.2)U_N$	$(0.75 \dots 1.2)U_N$
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	—/10 · 10 ⁶	—/10 · 10 ⁶
Electrical life at rated load AC1	cycles	100 · 10 ³	100 · 10 ³
Operate/release time	ms	10/4	10/4
Insulation between coil and contacts (1.2/50 µs)	kV	6 (8 mm)	6 (8 mm)
Dielectric strength between open contacts	V AC	1500	1500
Ambient temperature range	°C	−40...+70	−40...+70
Environmental protection		RT II	RT II

Approvals (according to type)



PCB Relay with forcibly guided contacts according to EN 61810 (previously EN 50205) Type A

Type 50.14...4220/4310

- 4 pole 8 A (2 NO + 2 NC) or (3 NO +1 NC)
- Contact AgSnO₂

Type 50.16...5420/5510

- 6 pole 8 A (4 NO + 2 NC) or (5 NO +1 NC)
- Contact $\text{AgSnO}_2 + \text{Au}$

- High physical separation between adjacent contacts
- Cadmium Free contact materials
- DC coil 800 mW
- 8 mm, 6 kV (1.2/50 μ s) isolation, coil-contacts
- PCB mounting
- Wash tight: RT III

FOR UL RATINGS SEE:

"General technical information" page V

For outline drawing see page 7

Contact specification

Contact configuration		2 NO +2 NC, 3 NO + 1 NC	4 NO +2 NC, 5 NO + 1 NC
Rated current/Maximum peak current	A	8/15	8/15
Rated voltage/ Maximum switching voltage	V AC	250/400	250/400
Rated load AC1	VA	2000	2000
Rated load AC15 (230 V AC)	VA	700	1100
Single phase motor rating (230 V AC)	kW	0.37	0.37
Breaking capacity DC1: 30/110/220 V	A	8/0.6/0.2	8/0.6/0.2
Minimum switching load	mW (V/mA)	50 (5/10)	50 (5/10)
Standard contact material		AgSnO ₂	AgSnO ₂ + Au
Coil specification			
Nominal voltage (U _N)	V AC (50/60 Hz)	—	—
	V DC	12 - 24 - 48 - 110	12 - 24 - 48 - 110
Rated power AC/DC	VA (50 Hz)/W	—/0.8	—/0.8
Operating range	AC (50 Hz)	—	—
	DC	(0.75...1.2)U _N	(0.75...1.2)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	—/10 · 10 ⁶	—/10 · 10 ⁶
Electrical life at rated load AC1	cycles	100 · 10 ³	100 · 10 ³
Operate/release time	ms	10/4	10/4
Insulation between coil and contacts (1.2/50 µs)	kV	6 (8 mm)	6 (8 mm)
Dielectric strength between open contacts	V AC	1500	1500
Ambient temperature range	°C	−40...+70	−40...+70
Environmental protection		RT III	RT III
Approvals (according to type)		  	