

Features

**2 Pole Safety relay interface modules,
15.8 mm wide**

48.12 - 2 Pole 8 A (screw terminal)

- DC sensitive coils
- Relay with forcibly guided contacts according to EN 50205 Type B
- 35 mm rail (EN 60715) mounting

48.12
Screw terminal

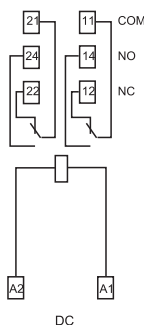


According to EN 50205 only 1 NO and 1 NC (11-14 and 21-22 or 11-12 and 21-24) shall be used as forcibly guided contacts.

For outline drawing see page 7



- 2 pole, 8 A
- Safety relay
- Screw terminal
- 35 mm rail (EN 60715) mounting



Contact specification

Contact configuration	2 CO (DPDT)
Rated current/Maximum peak current	A 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)	kW 0.37
Breaking capacity DC1: 30/110/220V	A 8/0.65/0.2
Minimum switching load	mW (V/mA) 300 (5/5)
Standard contact material	AgNi

Coil specification

Nominal voltage (U_N)	V AC (50/60 Hz)	—
	V DC	12 - 24
Rated power AC/sens. DC	VA (50 Hz)/W	—/0.7
Operating range	AC	—
	sens. DC	$(0.75 \dots 1.2) U_N$
Holding voltage	AC/DC	— /0.4 U_N
Must drop-out voltage	AC/DC	— /0.1 U_N

Technical data

Mechanical life AC/DC	cycles	—/10 · 10 ⁶
Electrical life at rated load AC1	cycles	100 · 10 ³
Operate/release time	ms	10/4
Insulation between coil and contacts (1.2/50 µs)	kV	6 (8 mm)
Dielectric strength between open contacts	V AC	1,500
Ambient temperature range	°C	−40...+70
Protection category		IP 20

Approvals relay (according to type)



Features

1 & 2 Pole relay interface modules,
15.8 mm wide

Ideal interface for PLC and electronic systems

48.31 - 1 Pole 10 A (screw terminal)
48.52 - 2 Pole 8 A (screw terminal)
48.72 - 2 Pole 8 A (screwless terminal)

- AC coils or DC sensitive coils
- Instant ejection of relay using plastic retaining clip
- Supply status indication and EMC coil suppression module as standard
- Identification label
- UL Listing (certain relay/socket combinations)
- 35 mm rail (EN 60715) mounting

48.31 / 48.52
Screw terminal



48.72
Screwless terminal

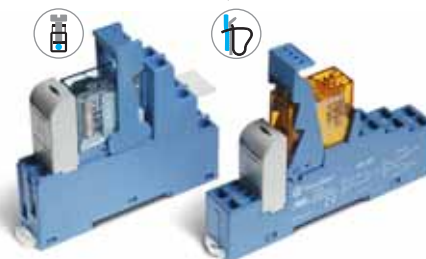


48.31

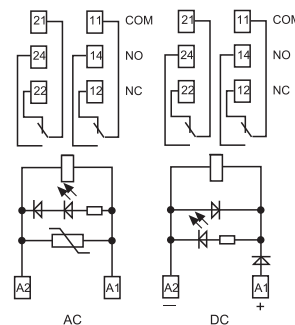
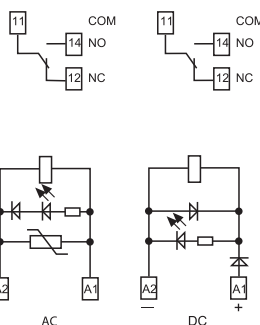


- 1 pole, 10 A
- Screw terminal
- 35 mm rail (EN 60715) mounting

48.52/72



- 2 pole, 8 A
- Screw terminal and screwless terminal
- 35 mm rail (EN 60715) mounting



For outline drawing see page 7

Contact specification

Contact configuration	1 CO (SPDT)	2 CO (DPDT)
Rated current/Maximum peak current	A	8/15
Rated voltage/Maximum switching voltage	V AC	250/250
Rated load AC1	VA	2,000
Rated load AC15 (230 V AC)	VA	400
Single phase motor rating (230 V AC)	kW	0.3
Breaking capacity DC1: 30/110/220V	A	8/0.3/0.12
Minimum switching load	mW (V/mA)	300 (5/5)
Standard contact material	AgNi	AgNi

Coil specification

Nominal voltage (U_N)	V AC (50/60 Hz)	12 - 24 - 110 - 120 - 230	12 - 24 - 110 - 120 - 230
	V DC	12 - 24 - 125	12 - 24 - 125
Rated power AC/sens. DC	VA (50 Hz)/W	1.2/0.5	1.2/0.5
Operating range	AC	$(0.8...1.1)U_N$	$(0.8...1.1)U_N$
	sens. DC	$(0.73...1.75)U_N$	$(0.73...1.75)U_N$
Holding voltage	AC/DC	$0.8 U_N / 0.4 U_N$	$0.8 U_N / 0.4 U_N$
Must drop-out voltage	AC/DC	$0.2 U_N / 0.1 U_N$	$0.2 U_N / 0.1 U_N$

Technical data

Mechanical life AC/DC	cycles	$10 \cdot 10^6 / 20 \cdot 10^6$	$10 \cdot 10^6 / 20 \cdot 10^6$
Electrical life at rated load AC1	cycles	$200 \cdot 10^3$	$100 \cdot 10^3$
Operate/release time	ms	7/4 (AC) - 12/12 (DC)	7/4 (AC) - 12/12 (DC)
Insulation between coil and contacts (1.2/50 μ s)	kV	6 (8 mm)	6 (8 mm)
Dielectric strength between open contacts	V AC	1,000	1,000
Ambient temperature range	°C	-40...+70	-40...+70
Protection category		IP 20	IP 20

Approvals relay (according to type)

