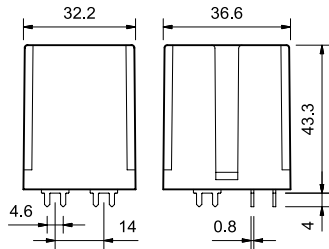


**20 A Power relays**  
**1 NO + 1 NC (SPST-NO + SPST-NC)**

- 65.31 Flange mount**  
**Faston 250 connections**
- 65.61 PCB mount**

- AC coils & DC coils
- Cadmium Free option available



65.61

\* With the AgSnO<sub>2</sub> material the maximum peak current is 120 A - 5 ms on NO contact.

FOR UL RATINGS SEE:  
"General technical information" page V

**Contact specification**

Contact configuration		1NO + 1NC (SPST-NO+SPST-NC)	1NO + 1NC (SPST-NO+SPST-NC)
Rated current/Maximum peak current	A	20/40*	20/40*
Rated voltage/ Maximum switching voltage	V AC	250/400	250/400
Rated load AC1	VA	5000	5000
Rated load AC15 (230 V AC)	VA	1000	1000
Single phase motor rating (230 V AC)	kW	1.1	1.1
Breaking capacity DC1: 30/110/220 V	A	20/0.8/0.5	20/0.8/0.5
Minimum switching load	mW (V/mA)	1000 (10/10)	1000 (10/10)
Standard contact material		AgCdO	AgCdO

**Coil specification**

Nominal voltage (U <sub>N</sub> )	V AC (50/60 Hz)	6 - 12 - 24 - 48 - 60 - 110 - 120 - 230 - 240 - 400	
	V DC	6 - 12 - 24 - 48 - 60 - 110 - 125 - 220	
Rated power AC/DC	VA (50 Hz)/W	2.2/1.3	2.2/1.3
Operating range	AC	(0.8...1.1)U <sub>N</sub>	(0.8...1.1)U <sub>N</sub>
	DC	(0.85...1.1)U <sub>N</sub>	(0.85...1.1)U <sub>N</sub>
Holding voltage	AC/DC	0.8 U <sub>N</sub> / 0.6 U <sub>N</sub>	0.8 U <sub>N</sub> / 0.6 U <sub>N</sub>
Must drop-out voltage	AC/DC	0.2 U <sub>N</sub> / 0.1 U <sub>N</sub>	0.2 U <sub>N</sub> / 0.1 U <sub>N</sub>

**Technical data**

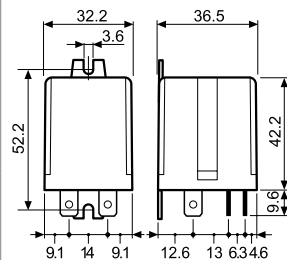
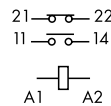
Mechanical life AC/DC	cycles	10 · 10 <sup>6</sup> / 30 · 10 <sup>6</sup>	10 · 10 <sup>6</sup> / 30 · 10 <sup>6</sup>
Electrical life at rated load AC1	cycles	80 · 10 <sup>3</sup>	80 · 10 <sup>3</sup>
Operate/release time	ms	10/12	10/12
Insulation between coil and contacts (1.2/50 μs)	kV	4	4
Dielectric strength between open contacts	V AC	1500	1500
Ambient temperature range	°C	-40...+75	-40...+75
Environmental protection		RT I	RT I

**Approvals** (according to type)



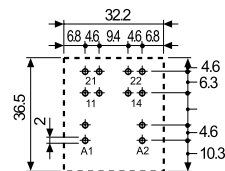
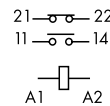
65.31

- 20 A rated contacts
- Flange mount/Faston 250 (6.3 x 0.8 mm) connection



65.61

- 20 A rated contacts
- PCB mount - bifurcated terminals



Copper side view



A

**30 A Power relays**

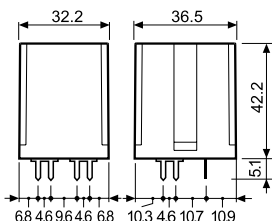
**1 NO (SPST-NO)**

**65.31-0300 Flange mount**

**Faston 250 connections**

**65.61-0300 PCB mount**

- ≥ 3 mm contact gap
- AC coils & DC coils
- Cadmium Free option available



65.61-0300

\* Distance between contacts ≥ 3 mm (EN 60335-1).

\*\* With the AgSnO<sub>2</sub> material the maximum peak current is 120 A - 5 ms on NO contact.

FOR UL RATINGS SEE:

"General technical information" page V

**Contact specification**

Contact configuration

1 NO (SPST-NO), ≥ 3 mm\*

1 NO (SPST-NO), ≥ 3 mm\*

Rated current/Maximum peak current

A

30/50\*\*

30/50\*\*

Rated voltage/

Maximum switching voltage

V AC

250/400

250/400

Rated load AC1

VA

7500

7500

Rated load AC15 (230 V AC)

VA

1250

1250

Single phase motor rating (230 V AC)

kW

1.5

1.5

Breaking capacity DC1: 30/110/220 V

A

30/1.1/0.7

30/1.1/0.7

Minimum switching load

mW (V/mA)

1000 (10/10)

1000 (10/10)

Standard contact material

AgCdO

AgCdO

**Coil specification**

Nominal voltage (U<sub>N</sub>)

V AC (50/60 Hz)

6 - 12 - 24 - 48 - 60 - 110 - 120 - 230 - 240 - 400

V DC

6 - 12 - 24 - 48 - 60 - 110 - 125 - 220

Rated power AC/DC

VA (50 Hz)/W

2.2/1.3

2.2/1.3

Operating range

AC

(0.8...1.1)U<sub>N</sub>

(0.8...1.1)U<sub>N</sub>

DC

(0.85...1.1)U<sub>N</sub>

(0.85...1.1)U<sub>N</sub>

Holding voltage

AC/DC

0.8 U<sub>N</sub> / 0.6 U<sub>N</sub>

0.8 U<sub>N</sub> / 0.6 U<sub>N</sub>

Must drop-out voltage

AC/DC

0.2 U<sub>N</sub> / 0.1 U<sub>N</sub>

0.2 U<sub>N</sub> / 0.1 U<sub>N</sub>

**Technical data**

Mechanical life AC/DC

cycles

10 · 10<sup>5</sup> / 30 · 10<sup>6</sup>

10 · 10<sup>5</sup> / 30 · 10<sup>6</sup>

Electrical life at rated load AC1

cycles

50 · 10<sup>3</sup>

50 · 10<sup>3</sup>

Operate/release time

ms

15/4

15/4

Insulation between coil

and contacts (1.2/50 μs)

kV

4

4

Dielectric strength

between open contacts

V AC

2500

2500

Ambient temperature range

°C

-40...+75

-40...+75

Environmental protection

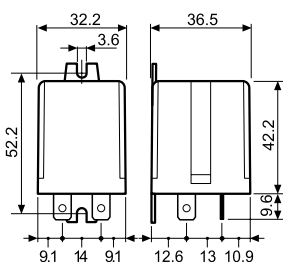
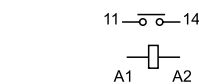
RT I

RT I

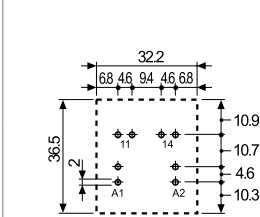
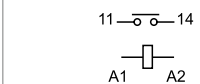
**Approvals** (according to type)



- 30 A rated contacts
- Flange mount/Faston 250 (6.3 x 0.8 mm) connection



- 30 A rated contacts
- PCB mount - bifurcated terminals



Copper side view