

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

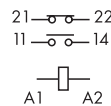
**Type 65.31**  
- Flange mount and Faston 250 connections

**Type 65.61**  
- PCB mount

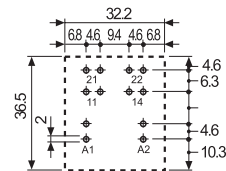
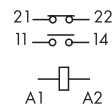
- AC coils & DC coils
- Cadmium Free option available



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



- 20 A rated contacts
- PCB mount
- Bifurcated terminals



Copper side view

\* 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)



**30 A Power relays****1 NO (SPST-NO)****Type 65.31-0300**

- Flange mount and Faston 250 connections

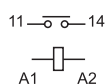
**Type 65.61-0300**

- PCB mount

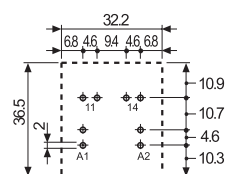
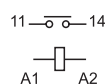
- $\geq 3$  mm contact gap
- AC coils & DC coils
- Cadmium Free option available

**65.31-0300**

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

**65.61-0300**

- 30 A rated contacts
- PCB mount
- Bifurcated terminals



Copper side view

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

\*\* With the  $\text{AgSnO}_2$  material the maximum peak current is 120 A - 5 ms on NO contact.

FOR UL RATINGS SEE:

"General technical information" page V

**Contact specification**

		1 NO (SPST-NO), $\geq 3$ mm*	1 NO (SPST-NO), $\geq 3$ mm*
Contact configuration		1 NO (SPST-NO), $\geq 3$ mm*	1 NO (SPST-NO), $\geq 3$ 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 ( $U_N$ )	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
Operating range	AC	(0.8...1.1) $U_N$
	DC	(0.85...1.1) $U_N$
Holding voltage	AC/DC	0.8 $U_N$ / 0.6 $U_N$
Must drop-out voltage	AC/DC	0.2 $U_N$ / 0.1 $U_N$

**Technical data**

Mechanical life AC/DC	cycles	$10 \cdot 10^6$ / $30 \cdot 10^6$
Electrical life at rated load AC1	cycles	$50 \cdot 10^3$
Operate/release time	ms	15/4
Insulation between coil and contacts (1.2/50 $\mu$ s)	kV	4
Dielectric strength between open contacts	V AC	2500
Ambient temperature range	$^{\circ}$ C	-40...+75
Environmental protection		RT I

**Approvals** (according to type)