

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

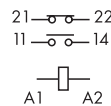
Type 65.31
- Flange mount and Faston 250 connections

Type 65.61
- PCB mount

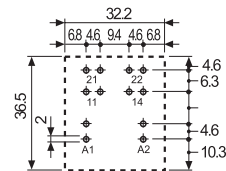
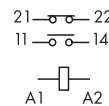
- AC coils & DC coils
- Cadmium Free option available



- 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 AgSnO₂ material the maximum peak current is 120 A - 5 ms on NO contact.

FOR UL RATINGS SEE:

"General technical information" page V

For outline drawing see page 7

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 _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 · 10 ⁶ / 30 · 10 ⁶	10 · 10 ⁶ / 30 · 10 ⁶
Electrical life at rated load AC1	cycles	80 · 10 ³	80 · 10 ³
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

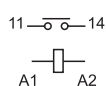
Type 65.61-0300

- PCB mount

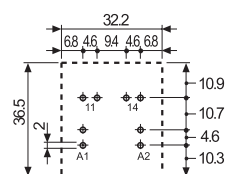
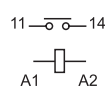
- ≥ 3 mm contact gap
- AC coils & DC coils
- Cadmium Free option available

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 ≥ 3 mm (EN 60335-1).

** With the AgSnO_2 material the maximum peak current is 120 A - 5 ms on NO contact.

FOR UL RATINGS SEE:

"General technical information" page V

For outline drawing see page 7

Contact specification

		1 NO (SPST-NO), ≥ 3 mm*	1 NO (SPST-NO), ≥ 3 mm*
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_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 μs)	kV	4
Dielectric strength between open contacts	V AC	2500
Ambient temperature range	$^{\circ}\text{C}$	-40...+75
Environmental protection		RT I

Approvals (according to type)