

## 2 Pole Changeover (DPDT) 30 A Power relay

### Type 66.22

- PCB connections & mount

### Type 66.82

- Faston 250 connections and Flange mount

- Reinforced insulation between coil and contacts according to EN 60335-1; 8 mm creepage and clearance distances
- AC coils & DC coils
- Cadmium Free option available
- ATEX compliant (EX nC) option available

## 66.22



- 30 A rated contacts
- PCB mount - bifurcated terminals

## 66.82

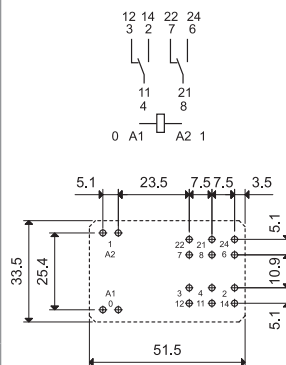


- 30 A rated contacts
- Flange mount
- Faston 250 connections

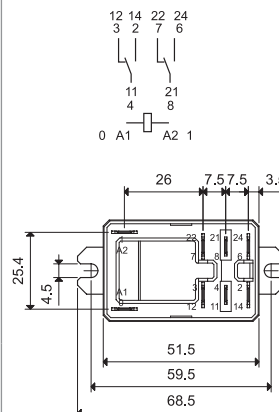
For outline drawing see page 9

FOR UL RATINGS SEE:

"General technical information" page V



Copper side view



### Contact specification

|                                             |           |                         |                         |
|---------------------------------------------|-----------|-------------------------|-------------------------|
| Contact configuration                       |           | 2 CO (DPDT)             | 2 CO (DPDT)             |
| Rated current/Maximum peak current          | A         | 30/50 (NO) - 10/20 (NC) | 30/50 (NO) - 10/20 (NC) |
| Rated voltage/<br>Maximum switching voltage | V AC      | 250/440                 | 250/440                 |
| Rated load AC1                              | VA        | 7500 (NO) - 2500 (NC)   | 7500 (NO) - 2500 (NC)   |
| Rated load AC15 (230 V AC)                  | VA        | 1200 (NO)               | 1200 (NO)               |
| Single phase motor rating (230 V AC)        | kW        | 1.5 (NO)                | 1.5 (NO)                |
| Breaking capacity DC1: 30/110/220 V         | A         | 25/0.7/0.3 (NO)         | 25/0.7/0.3 (NO)         |
| 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 - 110/115 - 120/125 - 230 - 240 |         |
|                           | V DC            | 6 - 9 - 12 - 24 - 110 - 125                 |         |
| Rated power AC/DC         | VA (50 Hz)/W    | 3.6/1.7                                     | 3.6/1.7 |
| Operating range           | AC              | $(0.8 \dots 1.1) U_N$                       |         |
|                           | DC              | $(0.8 \dots 1.1) U_N$                       |         |
| Holding voltage           | AC/DC           | $0.8 U_N / 0.5 U_N$                         |         |
| Must drop-out voltage     | AC/DC           | $0.2 U_N / 0.1 U_N$                         |         |

### Technical data

|                                                       |              |                  |                  |
|-------------------------------------------------------|--------------|------------------|------------------|
| Mechanical life AC/DC                                 | cycles       | $10 \cdot 10^6$  | $10 \cdot 10^6$  |
| Electrical life at rated load AC1                     | cycles       | $100 \cdot 10^3$ | $100 \cdot 10^3$ |
| Operate/release time                                  | ms           | 8/15             | 8/15             |
| Insulation between coil and contacts (1.2/50 $\mu$ s) | kV           | 6 (8 mm)         | 6 (8 mm)         |
| Dielectric strength between open contacts             | V AC         | 1500             | 1500             |
| Ambient temperature range                             | $^{\circ}$ C | -40...+70        | -40...+70        |
| Environmental protection                              |              | RT II            | RT II            |

### Approvals (according to type)



**2 Pole NO (DPST-NO)****30 A Power relay****Type 66.22-x30x**

- PCB mount

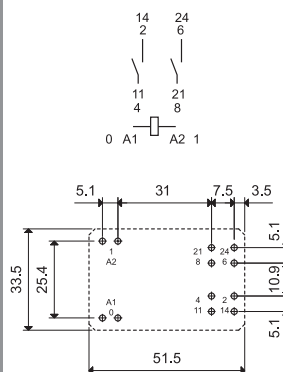
**Type 66.82-x30x**

- Faston 250 connections and Flange mount

- Reinforced insulation between coil and contacts according to EN 60335-1; 8 mm creepage and clearance distances
- AC coils & DC coils
- Cadmium Free option available
- ATEX compliant (EX nC) option available

**66.22-x30x**

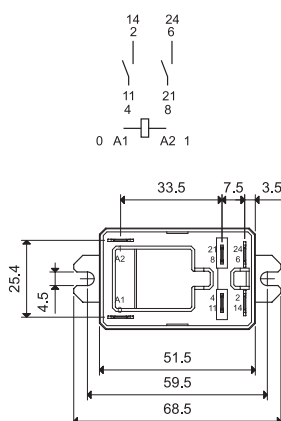
- 30 A rated contacts
- PCB mount - bifurcated terminals



Copper side view

**66.82-x30x**

- 30 A rated contacts
- Flange mount
- Faston 250 connections



For outline drawing see page 9

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**Contact specification**

|                                         |           |                |                |
|-----------------------------------------|-----------|----------------|----------------|
| Contact configuration                   |           | 2 NO (DPST-NO) | 2 NO (DPST-NO) |
| Rated current/Maximum peak current      | A         | 30/50          | 30/50          |
| Rated voltage/Maximum switching voltage | V AC      | 250/440        | 250/440        |
| Rated load AC1                          | VA        | 7500           | 7500           |
| Rated load AC15 (230 V AC)              | VA        | 1200           | 1200           |
| Single phase motor rating (230 V AC)    | kW        | 1.5            | 1.5            |
| Breaking capacity DC1: 30/110/220 V     | A         | 25/0.7/0.3     | 25/0.7/0.3     |
| 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 - 110/115 - 120/125 - 230 - 240 |                       |
|                           | V DC            | 6 - 9 - 12 - 24 - 110 - 125                 |                       |
| Rated power AC/DC         | VA (50 Hz)/W    | 3.6/1.7                                     | 3.6/1.7               |
| Operating range           | AC              | $(0.8 \dots 1.1) U_N$                       | $(0.8 \dots 1.1) U_N$ |
|                           | DC              | $(0.8 \dots 1.1) U_N$                       | $(0.8 \dots 1.1) U_N$ |
| Holding voltage           | AC/DC           | $0.8 U_N / 0.5 U_N$                         | $0.8 U_N / 0.5 U_N$   |
| 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       | $10 \cdot 10^6$  | $10 \cdot 10^6$  |
| Electrical life at rated load AC1                     | cycles       | $100 \cdot 10^3$ | $100 \cdot 10^3$ |
| Operate/release time                                  | ms           | 8/10             | 8/10             |
| Insulation between coil and contacts (1.2/50 $\mu$ s) | kV           | 6 (8 mm)         | 6 (8 mm)         |
| Dielectric strength between open contacts             | V AC         | 1500             | 1500             |
| Ambient temperature range                             | $^{\circ}$ C | -40...+70        | -40...+70        |
| Environmental protection                              |              | RT II            | RT II            |

**Approvals** (according to type)