

**Features**

2 Pole NO (DPST-NO), ≥1.5mm contact gap  
30 A Power relay

- 66.22-x600 PCB mount
- 66.22-x600S PCB mount - 5 mm gap between PCB and relay base
- 66.82-x600 Faston 250 connections - Flange mount

- ≥1.5 mm contact gap (according to VDE 0126-1-1 for solar inverter applications)
- Reinforced insulation between coil and contacts according to EN 60335-1; 8 mm creepage and clearance distances
- Wash tight version (RT III) available
- DC coils
- Cadmium Free option available
- ATEX compliant (EX nC) option available

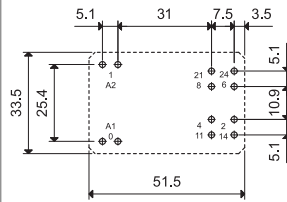
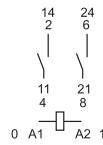
For outline drawing see page 7

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

**NEW 66.22-x60x**



- PCB mount - bifurcated terminals

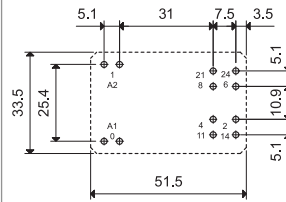
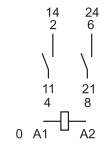


Copper side view

**NEW 66.22-x60xS**



- PCB mount - bifurcated terminals
- 5 mm gap between PCB and relay base

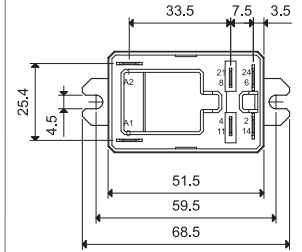
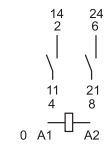


Copper side view

**NEW 66.82-x60x**



- Flange mount
- Faston 250 connections

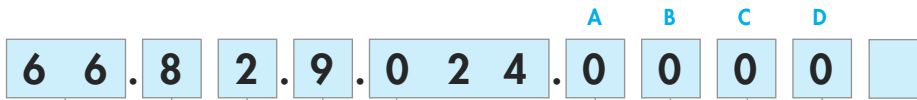


Contact specification				
Contact configuration		2 NO (DPST-NO)	2 NO (DPST-NO)	2 NO (DPST-NO)
Rated current/Maximum peak current	A	30/50	30/50	30/50
Rated voltage/Maximum switching voltage V AC		250/440	250/440	250/440
Rated load AC1	VA	7,500	7,500	7,500
Rated load AC15 (230 V AC)	VA	1,200	1,200	1,200
Single phase motor rating (230 V AC)	kW	1.5	1.5	1.5
Breaking capacity DC1: 30/110/220 V	A	25/1.2/0.5	25/1.2/0.5	25/1.2/0.5
Minimum switching load	mW (V/mA)	1,000 (10/10)	1,000 (10/10)	1,000 (10/10)
Standard contact material		AgCdO	AgCdO	AgCdO
Coil specification				
Nominal voltage (U <sub>N</sub> )	V AC (50/60 Hz) V DC	— 6 - 12 - 24 - 110 - 125		
Rated power AC/DC	VA (50 Hz)/W	—/1.7	—/1.7	—/1.7
Operating range	AC DC	— (0.8...1.1)U <sub>N</sub>	— (0.7...1.1)U <sub>N</sub>	— (0.8...1.1)U <sub>N</sub>
Holding voltage	AC/DC	—/0.5 U <sub>N</sub>	—/0.5 U <sub>N</sub>	—/0.5 U <sub>N</sub>
Must drop-out voltage	AC/DC	—/0.1 U <sub>N</sub>	—/0.1 U <sub>N</sub>	—/0.1 U <sub>N</sub>
Technical data				
Mechanical life	cycles	10 · 10 <sup>6</sup>	10 · 10 <sup>6</sup>	10 · 10 <sup>6</sup>
Electrical life at rated load AC1	cycles	100 · 10 <sup>3</sup>	100 · 10 <sup>3</sup>	100 · 10 <sup>3</sup>
Operate/release time	ms	15/4	15/4	15/4
Insulation between coil and contacts (1.2/50 μs)	kV	6 (8 mm)	6 (8 mm)	6 (8 mm)
Dielectric strength between open contacts	V AC	2,500	2,500	2,500
Ambient temperature range	°C	−40...+70	−40...+70	−40...+70
Environmental protection		RT II	RT II	RT II
Approvals (according to type)				

### Ordering information

Example: 66 series relay, Faston 250 (6.3x0.8 mm) with top flange mount, 2 CO (DPDT) 30 A contacts, 24 V DC coil.

A



**Series** ———  
**Type**  
 2 = PCB  
 8 = Faston 250 (6.3x0.8 mm) with top flange mount  
**No. of poles**  
 2 = 2 pole 30 A (versions 0, 1)  
 2 = 2 pole 25 A (version 3)  
**Coil version**  
 8 = AC (50/60 Hz)  
 9 = DC  
**Coil voltage**  
 See coil specifications

**A: Contact material**  
 0 = Standard AgCdO  
 1 = AgNi  
**B: Contact circuit**  
 0 = CO (nPDT)  
 3 = NO (nPST)  
 6 = NO (nPST), ≥1.5 mm contact gap

S = PCB version with 5 mm gap between PCB and relay base (only 66.22)

**D: Special versions**  
 0 = Standard  
 1 = Wash tight (RT III)  
 3 = ATEX compliant (Ex nC)  
**C: Options**  
 0 = None

**Selecting features and options: only combinations in the same row are possible.**  
 Preferred selections for best availability are shown in **bold**.

Type	Coil version	A	B	C	D
66.22	AC-DC	0 - 1	0 - 3	0	0 - 1
	DC	0 - 1	<b>6</b>	0	0 - 1
66.22....S	DC	0 - 1	<b>6</b>	0	0 - 1 - 3
66.82	AC-DC	0 - 1	0 - 3	0	0 - 1 - 3
	DC	0 - 1	<b>6</b>	0	0 - 1 - 3

### Technical data

Insulation according to EN 61810-1		
Nominal voltage of supply system	V AC	230/400
Rated insulation voltage	V AC	400
Pollution degree		3
Insulation between coil and contact set		
Type of insulation		Reinforced (8 mm)
Overvoltage category		III
Rated impulse voltage	kV (1.2/50 µs)	6
Dielectric strength	V AC	4,000
Insulation between adjacent contacts		
Type of insulation		Basic
Overvoltage category		III
Rated impulse voltage	kV (1.2/50 µs)	4
Dielectric strength	V AC	2,500
Insulation between open contacts		
Type of disconnection		<b>2 CO</b> <b>2 NO, ≥1.5mm (x60x version)</b>
Overvoltage category		Micro-disconnection      Full-disconnection *
Rated impulse voltage	kV (1.2/50 µs)	—      2.5
Dielectric strength	V AC/kV (1.2/50 µs)	1,500/2      2,500/3
Conducted disturbance immunity		
Burst (5...50)ns, 5 kHz, on A1 - A2	EN 61000-4-4	level 4 (4 kV)
Surge (1.2/50 µs) on A1 - A2 (differential mode)	EN 61000-4-5	level 4 (4 kV)
Other data		
Bounce time: NO/NC	ms	7/10
Vibration resistance (10...150)Hz: NO/NC	g	20/19
Shock resistance	g	20
Power lost to the environment	without contact current	W
	with rated current	W
Recommended distance between relays mounted on PCB	mm	≥ 10

\* Only in applications where over voltage category II is permitted. In applications of over voltage category III: Micro-disconnection.