

**2 Pole NO (DPST-NO), ≥ 1.5 mm 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:

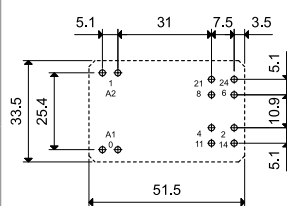
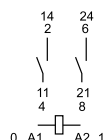
"General technical information" page V

NEW

66.22-x60x



- PCB mount - bifurcated terminals



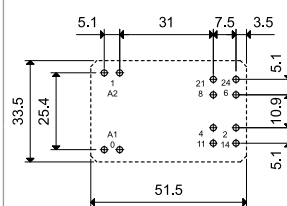
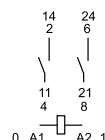
Copper side view

NEW

66.22-x60xS



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



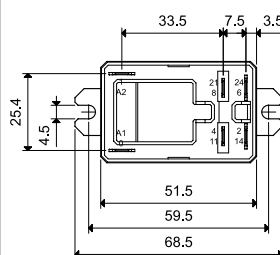
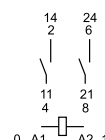
Copper side view

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	7500	7500	7500
Rated load AC15 (230 V AC)	VA	1200	1200	1200
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)	1000 (10/10)	1000 (10/10)	1000 (10/10)
Standard contact material		AgCdO	AgCdO	AgCdO
Coil specification				
Nominal voltage (U_N)	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	$(0.8 \dots 1.1) U_N$	$(0.7 \dots 1.1) U_N$	$(0.8 \dots 1.1) U_N$
Holding voltage	AC/DC	—/0.5 U_N	—/0.5 U_N	—/0.5 U_N
Must drop-out voltage	AC/DC	—/0.1 U_N	—/0.1 U_N	—/0.1 U_N
Technical data				
Mechanical life	cycles	$10 \cdot 10^6$	$10 \cdot 10^6$	$10 \cdot 10^6$
Electrical life at rated load AC1	cycles	$100 \cdot 10^3$	$100 \cdot 10^3$	$100 \cdot 10^3$
Operate/release time	ms	15/4	15/4	15/4
Insulation between coil and contacts (1.2/50 μ s)	kV	6 (8 mm)	6 (8 mm)	6 (8 mm)
Dielectric strength between open contacts	V AC	2500	2500	2500
Ambient temperature range	$^{\circ}$ 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

6 6 . 8 2 . 9 . 0 2 4 . 0 0 0 0

Series
Type
2 = PCB
8 = Faston 250 (6.3 x 0.8 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

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	6	0	0 - 1
66.22...S	DC	0 - 1	6	0	0 - 1 - 3
66.82	AC-DC	0 - 1	0 - 3	0	0 - 1 - 3
	DC	0 - 1	6	0	0 - 1 - 3

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

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	4000
Insulation between adjacent contacts		
Type of insulation		Basic
Overvoltage category		III
Rated impulse voltage	kV (1.2/50 µs)	4
Dielectric strength	V AC	2500
Insulation between open contacts		
	2 CO	2 NO, ≥ 1.5 mm (x60x version)
Type of disconnection	Micro-disconnection	Full-disconnection*
Overvoltage category	—	II
Rated impulse voltage	kV (1.2/50 µs)	2.5
Dielectric strength	V AC/kV (1.2/50 µs)	1500/2
		2500/3
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
		2.3
		5
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.