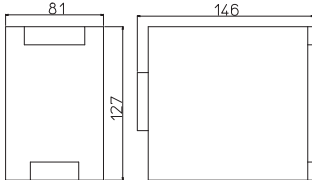


# Power supply · regulated, 720 W, 3-phase

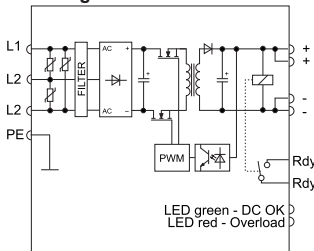
**Primary switchmode power supply, PFC, 3-phase**  
**Input: Wide range input AC 340 - 550 V**  
**Output: 24 V, adjustable**



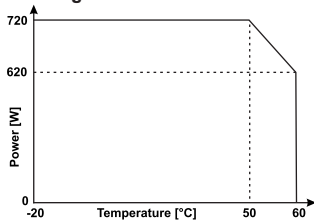
### Dimensions



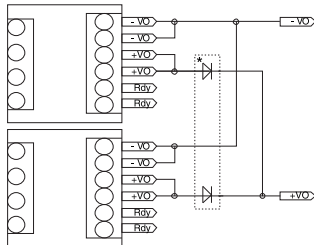
### PIN assignment



### Derating



### Parallel/redundant mode



\* Redundant Module 722999

| Description            | Part-No.      | Type   | PU           |   |
|------------------------|---------------|--------|--------------|---|
| <b>Screw terminal</b>  |               |        |              |   |
| Output voltage/current | DC 24 V/ 30 A | 722802 | CPSB3-720-24 | 1 |
|                        | DC 48 V/ 15 A | 722807 | CPSB3-720-48 | 1 |

| Input                          | CPSB3-720-24                                                        | CPSB3-720-48 |
|--------------------------------|---------------------------------------------------------------------|--------------|
| Nominal voltage                | 3× AC 400–500 V                                                     |              |
| Operation voltage range        | 3× AC 340–550 V                                                     |              |
| Line frequency                 | 47 – 63 Hz                                                          |              |
| Rated current                  | U <sub>I</sub> = AC 400 V: 2.1 A / U <sub>I</sub> = AC 500 V: 1.8 A |              |
| Inrush current                 | <10 A                                                               |              |
| Internal fuse                  | –                                                                   |              |
| External fuse                  | Automatic: 3 × B 16 A, C 10 A (required)                            |              |
| Power Factor Correction P.F.C. | >0.6                                                                |              |

| Output                            | CPSB3-720-24                         | CPSB3-720-48      |
|-----------------------------------|--------------------------------------|-------------------|
| Rated voltage output              | DC 24 V                              | DC 48 V           |
| Rated current output              | 30 A                                 | 15 A              |
| Max. output current               | 45 A, 5 s, @ 24 V                    | 20 A, 5 s, @ 48 V |
| Short-circuit current             | 60 A, 5 s                            | 30 A, 5 s         |
| Voltage trim range                | 24/28 V                              | 45/55 V           |
| Accuracy                          | –                                    |                   |
| Line regulation                   | –                                    |                   |
| Load regulation                   | <1 %                                 |                   |
| Rise time                         | –                                    |                   |
| Temperature coefficient           | –                                    |                   |
| Ripple & Noise                    | 100 mV pp                            |                   |
| Hold up time                      | >15 ms (AC 400 V)                    |                   |
| Status indication DC ON LED green | ≥21.6 V                              | ≥43.2 V           |
| Status indication DC LOW LED red  | ≤21.6 V                              | ≤43.2 V           |
| Parallel/redundant operation      | max. 2 devices / via external diodes |                   |
| Efficiency                        | >94 % (AC 400 V)                     | –                 |
| Low power loss                    | 55 W (AC 380 V)                      | –                 |
| Rated over load protection        | > 90°C, auto-reset                   |                   |
| Over voltage protection           | <33 V                                | <60 V             |
| Short circuit characteristics     | Hiccup mode, 5 s ON / 7 s OFF        |                   |

| General                            |                                                                                                                                                              |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Switching frequency                | approx. 70 – 110 kHz                                                                                                                                         |
| Insulation voltage input/output    | AC 3.0 kV <sub>eff</sub>                                                                                                                                     |
| Insulation voltage input / ground  | AC 2.0 kV <sub>eff</sub>                                                                                                                                     |
| Insulation voltage output / ground | AC 1.0 kV <sub>eff</sub>                                                                                                                                     |
| Insulation resistance at DC 500 V  | – MΩ                                                                                                                                                         |
| Operation temperature range        | -20 °C – 60 °C                                                                                                                                               |
| Derating                           | >50 °C: -10 W / °C                                                                                                                                           |
| Storage temperature range          | -25 °C – 85 °C                                                                                                                                               |
| M.T.B.F.                           | >500000 h to SN29500 / >150000 h to MIL standard HDBK 217F                                                                                                   |
| Relative humidity                  | 20–90% RH, non-condensing                                                                                                                                    |
| Dimensions (w × h × d) in mm       | 81.0 × 127.0 × 146.0                                                                                                                                         |
| Cooling                            | Natural air cooling, forced cooling >50°C, 50 mm distance above/below                                                                                        |
| Housing material                   | Aluminium                                                                                                                                                    |
| Field installation                 | rail TS 35 (EN 50022)                                                                                                                                        |
| Application height                 | – m                                                                                                                                                          |
| Installation position              | vertical                                                                                                                                                     |
| Protection class                   | IP 20 (IEC529, EN60529)                                                                                                                                      |
| IP rating                          | I (SELV, PELV)                                                                                                                                               |
| Overvoltage category               | II                                                                                                                                                           |
| Pollution degree                   | 2                                                                                                                                                            |
| Weight (kg/piece)                  | 1.200                                                                                                                                                        |
| Termination                        | Screw terminal: 0.2–6.0 mm <sup>2</sup> , max. 0.62 Nm                                                                                                       |
| Approvals                          | UL, cUL: UL 508, IEC 950, EN 60950<br>CE: EN 61000-4-2/3/4/5/6/11, EN 61000-6-2, EN 601000-6-4, EN 50178, EN 61558, EN 50081-1, EN 50082-2, EN 55022 Class B |

| Monitoring          |                     |
|---------------------|---------------------|
| DC ON Control (Rdy) | Normally open       |
| Switching voltage   | AC 300 V / DC 150 V |
| Switching current   | AC/DC 1 A           |
| Switching capacity  | 300 VA / 30 W       |
| Insulation voltage  | AC 500 V            |