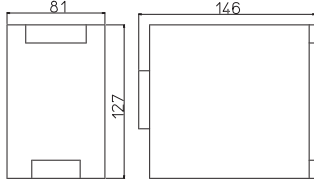


Power supply · regulated, 960 W, 3-phase

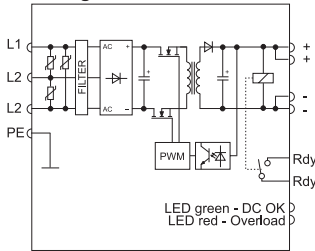
Switchmode power supply, PFC, 3-phase
 Input: Wide range input AC 340 - 550 V
 Output: 24 V / 48 V / 72 V



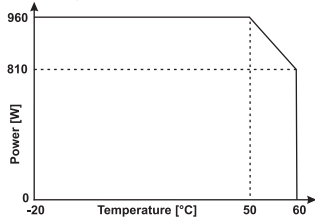
Dimensions



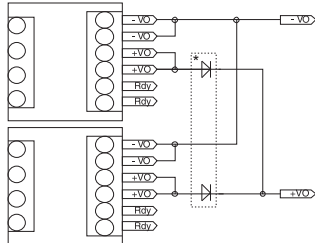
PIN assignment



Derating



Redundant operation



* Redundant Module 722999

Description	Part-No.	Type	PU	
Screw terminal				
Output voltage/current	DC 24 V / 40 A	722811	CPSB3-960-24	1
	DC 48 V / 20 A	722812	CPSB3-960-48	1
	DC 72 V / 13.3 A	722813	CPSB3-960-72	1
Input				
	CPSB3-960-24	CPSB3-960-48	CPSB3-960-72	
Nominal voltage		3× AC 400–500 V		
Operation voltage range		3× AC 340–550 V		
Line frequency		47 – 63 Hz		
Rated current	U _i = AC 400 V: 2.8 A / U _i = AC 500 V: 2.2 A			
Inrush current	<50 A			
Internal fuse	–			
External fuse	Automatic: 3 × B 16 A, C 10 A (required)			
Power Factor Correction P.F.C.	>0.7			
Output				
Rated voltage output	DC 24 V	DC 48 V	DC 72 V	
Rated current output	40 A	20 A	13.3 A	
Max. output current	44 A	21.5 A	14 A	
Short-circuit current	60 A (>90 A Hiccup)	30 A (>70 A Hiccup)	20 A (>30 A Hiccup)	
Voltage trim range	24/28 V	45/55 V	72/84 V	
Accuracy	–			
Line regulation	–			
Load regulation	<1 %			
Rise time	–			
Temperature coefficient	–			
Ripple & Noise	<100 mV		<300 mV	
Hold up time	>10 ms (AC 400 V); >15 ms (AC 500 V)			
Status indication DC ON LED green	≥21.6 V	≥43.2 V	≥64.8 V	
Status indication DC LOW LED red	≤21.6 V	≤43.2 V	≤64.8 V	
Parallel/redundant operation	max. 2 devices / via external diodes			
Efficiency	>91 %	>93 %	>94 %	
Low power loss	<95 W	<72 W	<62 W	
Rated over load protection	> 90°C, auto-reset			
Over voltage protection	<33 V	<60 V	<94 V	
Short circuit characteristics	Hiccup-mode / Constant current			
General				
Switching frequency	approx. 70 – 110 kHz			
Insulation voltage input/output	AC 3.0 kV _{eff}			
Insulation voltage input / ground	AC 2.0 kV _{eff}			
Insulation voltage output / ground	AC 1.0 kV _{eff}			
Insulation resistance at DC 500 V	– MΩ			
Operation temperature range	–20 °C – 60 °C (derating)			
Derating	>50 °C: -15 W / °C, UL 508: >45 °C: -15 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	Aluminum			
Shock resistance	30 g 6 ms, 20 g 11 ms, 3 shocks / direction, 18 shocks in total, IEC60068-2-27:2008			
Vibration resistance	5 – 17.8 Hz: ±1.6 mm, 17.8 – 500 Hz: 2 g 2 hours / axes X,Y,Z, IEC 60068-2-6:2007			
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: 0.2–10.0 mm ² , max. 0.62 Nm		Screw terminal: 0.2–6.0 mm ² , max. 0.62 Nm	
Approvals				
	UL, cUL: UL 508, IEC 950, EN 60950			
	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			