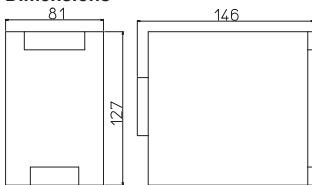


Power supply · regulated, 480 W

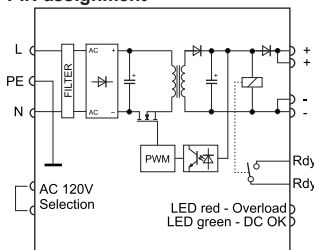
Primary switchmode power supply, PFC, Single-phase
Input: AC 90–132 V, AC 187–264 V
Output: 24 V, adjustable



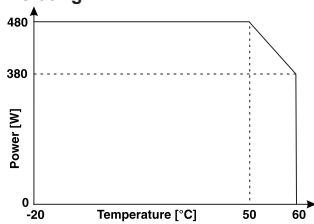
Dimensions



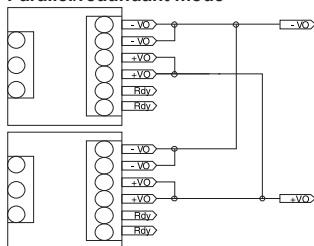
PIN assignment



Derating



Parallel/redundant mode



Description	Part-No.	Type	PU	
Screw terminal				
Output voltage/current	DC 24 V / 20 A	722986	CPSB1-480-24R	1
	DC 48 V / 10 A	722989	CPSB1-480-48R	1

Input	CPSB1-480-24R	CPSB1-480-48R
Nominal voltage	AC 120 V / AC 240 V	
Operation voltage range	AC 90–132 V / AC 187–264 V	
Line frequency	47 – 63 Hz	
Rated current	$U_i = AC 120 V: 6 A / U_i = AC 230 V: 3.5 A$	
Inrush current	<35 A	
Internal fuse	–	
External fuse	Automatic: C 16 A (required)	
Power Factor Correction P.F.C.	>0.6	

Output	CPSB1-480-24R	CPSB1-480-48R
Rated voltage output	DC 24 V	DC 48 V
Rated current output	20 A	10 A
Max. output current	30 A, 5 s, @ 24 V	15 A, 5 s, @ 48 V
Short-circuit current	>55 A, 5 s	>40 A, 5 s
Voltage trim range	23/28 V	45/55 V
Accuracy	–	
Line regulation	–	
Load regulation	<1 %	
Rise time	–	
Temperature coefficient	–	
Ripple & Noise	100 mV pp	
Hold up time	>35 ms (AC 240 V)	
Status indication DC ON LED green	$\geq 21.6 V$	$\geq 43.2 V$
Status indication DC LOW LED red	$\leq 21.6 V$	$\leq 43.2 V$
Parallel/redundant operation	max. 2 devices / via internal diodes	
Efficiency	>92 % (AC 240 V)	
Low power loss	45 A (AC 230 V)	
Rated over load protection	yes	
Over voltage protection	yes	
Short circuit characteristics	Hiccup-mode	

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 0.7 kV _{eff}
Insulation resistance at DC 500 V	– MΩ
Operation temperature range	-20 °C – 60 °C (derating)
Derating	>50°C: -10 W / °C
Storage temperature range	-25 °C – 85 °C
M.T.B.F.	750000 h to SN29500 / 250000 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, 10 mm distance right/left, 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)	1.100
Termination	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

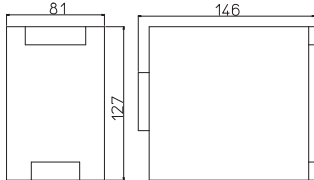
Monitoring	
DC ON Control (Rdy)	Normally open
Switching voltage	AC 300 V / DC 150 V
Switching current	AC/DC 1 A
Switching capacity	300 VA / 30 W
Insulation voltage	AC 500 V

Power supply · regulated, 480 W, 3-phase

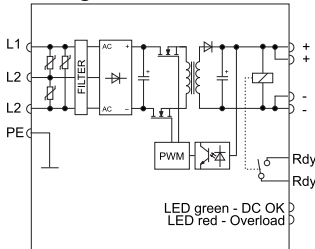
Primary switchmode power supply, PFC, 3-phase
Input: Wide range input AC 340 - 550 V
Output: 24 V, adjustable



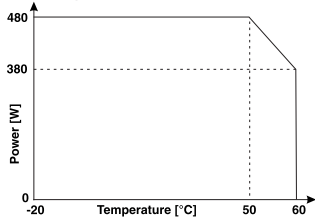
Dimensions



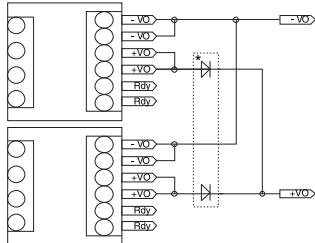
PIN assignment



Derating



Redundant operation



Description	Part-No.	Type	PU	
Screw terminal				
Output voltage/current	DC 24 V/ 20 A	722800	CPSB3-500-24	1
Input				
CPSB3-500-24				
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: 1.3 A / U _i = AC 500 V: 1.1 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				
Rated voltage output	DC 24 V			
Rated current output	20 A			
Max. output current	30 A, 5 s, @ 24 V			
Short-circuit current	>55 A, 5 s			
Voltage trim range	24/28 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			
Status indication DC LOW LED red	≤21.6 V			
Parallel/redundant operation	max. 2 devices / via external diodes			
Efficiency	>94 % (AC 400 V)			
Low power loss	30 A (AC 380 V)			
Rated over load protection	yes			
Over voltage protection	yes			
Short circuit characteristics	Hiccup-mode			
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 0.5 kV _{eff}			
Insulation resistance at DC 500 V	– MΩ			
Operation temperature range	-20 °C – 60 °C (derating)			
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, 10 mm distance right/left, 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 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			