

Power supply · regulated, 480 W

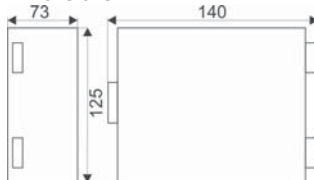
Switchmode power supplies, PFC, 1/2/3-phase

Input: wide-range input AC 187–550 V, DC 250–725 V (UL: DC 300–500 V)

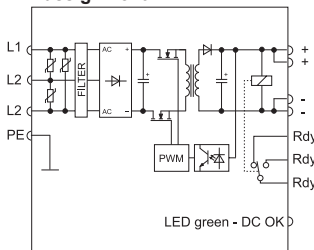
Output: 24 V, adjustable



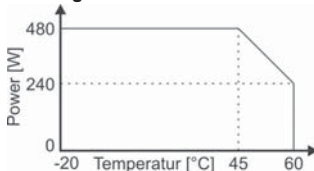
Dimensions



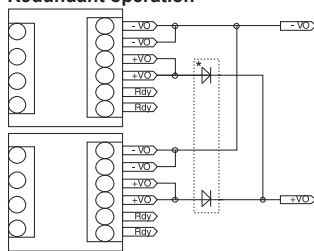
PIN assignment



Derating



Redundant operation



* Redundant Module 722987

Description	Part-No.	Type	PU	
Screw terminal, pluggable				
Output voltage/current	DC 24 V; 20 A	722801	CPSB-123-480-24	1
Input				
CPSB-123-480-24				
Nominal voltage	One-, two- and three-phase AC 200-500 V			
Operation voltage range	AC 187–550 V / DC 250–725 V (UL: DC 300–500 V)			
Line frequency	47 – 63 Hz			
Rated current	1-,2-phase @ AC 200 V: 2,9 A / 1-,2-phase @ AC 500 V: 1,3 A 3-phase @ AC 200 V: 1,8 A / 3-phase @ AC 500 V: 0,8 A			
Inrush current	U _i = AC 230 V: <20 A / U _i = AC 400 V: <40 A			
Internal fuse	–			
External fuse	Automatic: C 6 A, oder D 4 A (required)			
Power Factor Correction P.F.C.	U _i = AC 230 V: <0.95 A / U _i = AC 400 V: <0.92 A			
Output				
Rated voltage output	DC 24 V			
Rated current output	20 A			
Max. output current	28 A, 5 s			
Short-circuit current	50 A			
Voltage trim range	23-27,5 V			
Load regulation	<1 %			
Rise time	–			
Temperature coefficient	–			
Ripple & Noise	≤100 mV pp			
Hold up time	>20 ms			
Status indication DC ON LED green	≥21.6 V			
Status indication DC LOW LED red	I _{out} > 1.1 I _N			
Parallel/redundant operation	yes/via external decoupling diode			
Efficiency	>92 %			
Low power loss	<21 W			
Over voltage protection	<DC 33 V			
Overtemperature protection	yes			
Short circuit characteristics	Hiccup-mode			
General				
Insulation voltage input/output	DC 4,2 kV			
Insulation voltage input / ground	DC 2.2 kV			
Insulation voltage output / ground	DC 0.75 kV			
Operation temperature range	-20 °C – 60 °C (derating)			
Derating	<45 °C: -16 W/°C			
Storage temperature range	-25 °C – 85 °C			
M.T.B.F.	>500000 h to SN29500 / >150000 h to MIL standard HDBK 217F			
Dimensions (w × h × d) in mm	73.0 × 125.0 × 140.0			
Cooling	Natural air cooling			
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)			
Installation position	vertical			
Protection class	IP 20 (IEC529, EN60529)			
Overtoltage category	II			
Pollution degree	2			
Weight (kg/piece)	1.000			
Termination	Screw terminal: 0.2–2.5 mm ² (AWG 24–12) - pluggable			
Approvals	UL, cUL: UL 508C, IEC 950, EN 60950 CE: EN 61000-6-2, EN 61000-6-4, EN 55011, EN 6100-4-2 CE: EN 61000-4-3/4/5/6/11			
Monitoring				
DC ON Control (Rdy)	Normally open			
Switching voltage	AC/DC 30 V			
Switching current	AC/DC 1 A			
Switching capacity	30 VA / 30 W			
Insulation voltage	AC 500 V			