Technical data sheet · Power supply



regulated, 240 W

Identification	Type	CPSB-123-240-24
	Part-No.	722996

Description

Primary switched 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

USA: LUTZE INC.
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Input	
Number of phases	3
Rated voltage U_N	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 I_N	1-/2-phase: 2.2 A @ AC 220 V / 1.1 A @ AC 500 V, 3-phase: 1.5 A @ AC 220 V / 0.8 A @ AC 500 V
Inrush current	<20 A @ AC 230 V / <40 A @ AC 500 V
External fuse	Mini-circuit breaker: D 4 A, C 6 A / safety fuse: T 6.3 A (required)
Power Factor Correction P.F.C.	>0.6 @ 230 V, >0.5 @ 400 V

Output	
Rated voltage U_N	DC 24.00 V
Rated current I_N	10.00 A
Max. output current	>15 A, 5 s
Short-circuit current	38 A, 5 s
Heat dissipation	<24 W @ AC 230 V, <21 W @ AC 400 V
Setting range $U_{out\ min.}/U_{out\ max.}$	23-27,5 V
Load regulation	<1 %
Rise time	14 ms (5–95 %) @ 400 V
Ripple and Noise	<100 mV pp
Hold up time	>15 ms @ AC 230 V / >100 ms @ AC 500 V
Status indication DC ON LED green	≥21.6 V
Status indication DC LOW LED red	≤21.6 V
Parallel / redundant mode	yes/via external decoupling diode e.g. 722987
Efficiency	>91 % @ AC 230 V / >92 % @ AC 400 V
Over voltage protection	<DC 33 V
Rated over load protection	yes
Short circuit	Hiccup Mode

Monitoring	
DC ON Control (Rdy)	N/O contact
Switching voltage	DC 30 V
Switching current	DC 1 A
Switching capacity	30 W
Isolation voltage	AC 500 V

General	
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}
Derating	>50 °C: -6 W/°C

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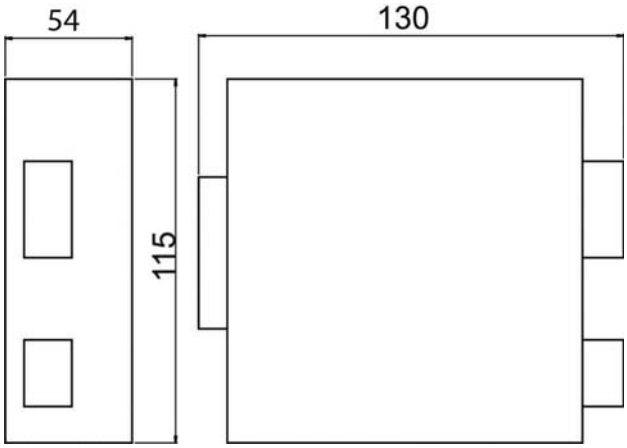
Operation temperature range	-20 °C ... +60 °C (over-temperature protection)
Storage temperature range	-25 °C … +85 °C
MTBF	>500000 h: SN29500 / >150000 h: MIL HDBK 217F
Relative air humidity	20 – 90 % RH, not condensing
Cooling	Air convection, 50 mm distance top/bottom, 20 mm side
Housing material	Aluminum
Mounting	Can be snapped onto hat profile TS35 (EN 60715)
Application height	2000 m
Installation position	vertical
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
Protection class	IP20 (IEC 529, EN 60529)
Protection class	I (SELV, PELV)
Over voltage category	II
Degree of polution	2
Weight	0.650 kg/piece
Connection device	Screw terminal 0.20 mm^2 – 2.5 mm^2 AWG 30 – AWG 12 plug-in
Dimensions (w × h × d)	54.0 × 130.0 × 115.0 mm
Approvals	cULus (E249179)
Standards	IEC 60950 EN 60950 EN 61000-6-2 EN 61000-6-4 EN 61000-4-2/3/4/5/6/11 EN 61000-5-5 EN 55011
PU	1 Quantity

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Dimensions



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