

regulated, 480 W



<b>Identification</b>	Type	CPSB-123-480-24
	Part-No.	722801
<b>Description</b>	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	

25.08.2017 – Subject to technical modification

Part-No. 722801

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## Technical data sheet · Power supply

### Input

Number of phases	3
Rated voltage $U_N$	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 $I_N$	1-/2-phase: 2.9 A @ AC 200 V / 1.3 A @ AC 500 V, 3-phase: 1.8 A @ AC 200 V / 0.8 A @ AC 500 V
Inrush current	<20 A @ AC 230 V / <40 A @ AC 400 V
External fuse	Mini-circuit breaker: C 6 A, or D 4 A (required)
Power Factor Correction P.F.C.	<0.95 @ AC 230 V, <0.92 @ AC 400 V

### Output

Rated voltage $U_N$	DC 24.00 V
Rated current $I_N$	20.00 A
Max. output current	28 A, 5 s
Short-circuit current	50 A
Heat dissipation	<21 W
Setting range $U_{out\ min.}/U_{out\ max.}$	23-27,5 V
Load regulation	<1 %
Ripple and Noise	<100 mV pp
Hold up time	>20 ms
Status indication DC ON LED green	$\geq 21.6$ V
Status indication DC LOW LED red	$I_{out} > 1.1 I_N$
Parallel / redundant mode	yes/via external decoupling diode
Efficiency	>92 %
Overtemperature protection	yes
Over voltage protection	<DC 33 V
Short circuit	Hiccup Mode

### Monitoring

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

### General

Insulation voltage input / output	DC 4.2 kV
Insulation voltage input / ground	DC 2.2 kV
Insulation voltage output / ground	DC 750 V
Derating	>45 °C: -16 W/°C
Operation temperature range	-20 °C ... +60 °C (Derating)

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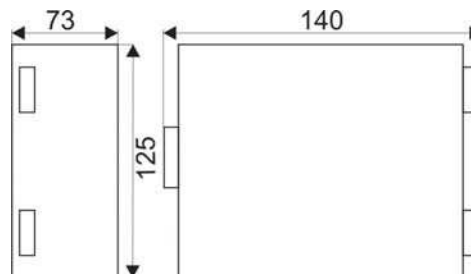
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Storage temperature range	-25 °C ... +85 °C
MTBF	>500000 h: SN29500 / >150000 h: MIL HDBK 217F
Cooling	Air convection, 50 mm distance top/bottom, 20 mm side
Housing material	Aluminum
Mounting	DIN rail mountable TS35 (EN 60715)
Installation position	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
Over voltage category	III
Degree of pollution	2
Weight	1.000 kg/piece
Connection device	Screw terminal 0.20 mm <sup>2</sup> – 2.5 mm <sup>2</sup> AWG 24 – AWG 12 plug-in
Dimensions (w × h × d)	73.0 × 125.0 × 140.0 mm
Approvals	cULus (E249179)
Standards	UL 508C IEC 950 EN 60950 EN 61000-6-2 EN 61000-6-4 EN 55011 EN 61000-4-2 EN 61000-4-2/3/4/5/6/11
PU	1 piece

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### Dimensions



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