

regulated, 80 W



Identification	Type	CPSF-1-80-24
	Part-No.	722789
Description	Primary switchmode power supply, PFC, Single-phase, Class 2 Input: wide-range input AC 90–264 V, DC 100–345 V Output: DC 24 V, adjustable	

25.08.2017 – Subject to technical modification

Part-No. 722789

USA: LUTZE INC.

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SYSTEMATIC TECHNOLOGY

Technical data sheet · Power supply

Input

Number of phases	1
Rated voltage U_N	AC 115/230 V
Operation voltage range	AC 90–264 V / DC 100–345 V (DC 300 V, UL508)
Line frequency	47 – 63 Hz
Rated current I_N	1.4 A @ AC 100 V / 0.85 A @ AC 240 V
Inrush current	<30 A
Internal fuse	T 2 A/AC 250 V
External fuse	Mini-circuit breaker: C 4 A
Power Factor Correction P.F.C.	>0.6

Output

Rated voltage U_N	DC 24.00 V
Rated current I_N	3.30 A
Max. output current	4 A @ 24 V
Short-circuit current	20 A
Setting range $U_{out\ min.}/U_{out\ max.}$	23.5-27.5 V
Load regulation	<1 %
Ripple and Noise	<50 mV pp
Hold up time	>10 ms @ AC 120 V / >30 ms @ AC 240 V
Status indication DC ON LED green	yes
Status indication DC LOW LED red	No
Parallel / redundant mode	max. 2 devices / via external decoupling diodes e.g. 722987
Efficiency	>87 % @ AC 120 V / >89 % @ AC 240 V
Over voltage protection	yes
Rated over load protection	yes
Short circuit	Hiccup Mode

General

Switching frequency	approx. 70 kHz
Insulation voltage input / output	AC 3.0 kV _{eff}
Insulation voltage input / ground	class 2, without PE
Insulation voltage output / ground	class 2, without PE
Derating	>55 °C: -0.9 W/°C
Operation temperature range	-20 °C ... +70 °C (Derating) (55 °C UL 508)
Storage temperature range	-25 °C ... +85 °C
MTBF	750000 h: SN29500 / 250000 h: MIL HDBK 217F
Relative air humidity	20 – 90 % RH, not condensing
Cooling	Air convection, 20 mm distance top/bottom, 10 mm side
Housing material	Noryl (UL 94 V-0)
Mounting	DIN rail mountable TS35 (EN 60715)

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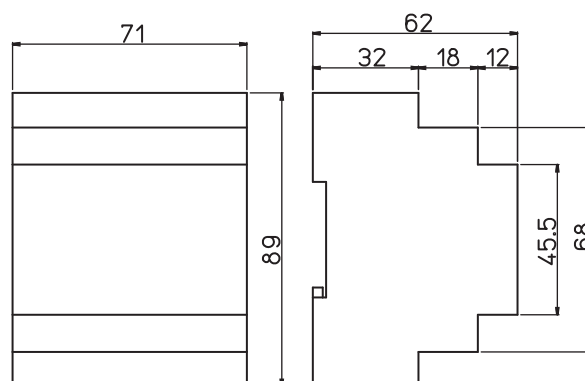


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Installation position	vertical
Protection class	IP20 (IEC 529, EN 60529)
Protection class	II (SELV, PELV)
Over voltage category	II
Degree of pollution	2
Weight	0.250 kg/piece
Connection device	Screw terminal 0.20 mm ² – 2.5 mm ² max. 0.56 Nm
Dimensions (w × h × d)	71.0 × 89.0 × 62.0 mm
Approvals	cULus (E249179)
Standards	IEC 950 EN 60950 UL 60950 EN 61000-4-2/3/4/5/6/11 EN 61000-6-2 EN 61000-6-4 EN 50178 EN 61558 EN 61000-3-2 EN 50081-1 EN 50082-2 EN 55022 EN 55022 Class B EN 55011B
PU	1 piece

Dimensions



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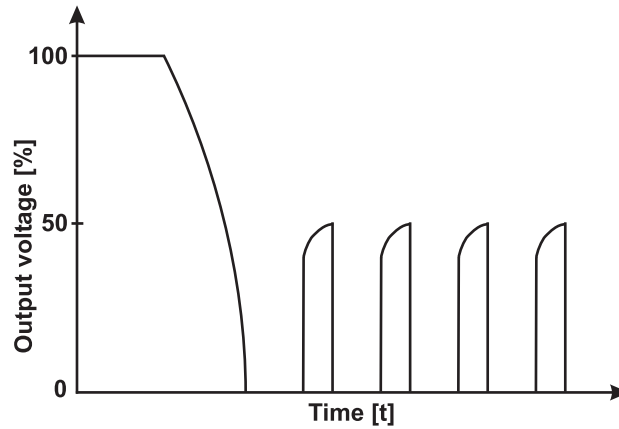
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Short circuit characteristics



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