

regulated, 240 W



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**Identification**

Type  
Part-No.

DRA240-24A  
722781

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**Description**

Primary switchmode power supply, PFC, Single-phase  
Input: wide-range input AC 88-264 V, DC 120-375V  
Output: 24 V

25.08.2017 – Subject to technical modification

Part-No. 722781

USA: LUTZE INC.

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## Technical data sheet - Power supply

### Input

Number of phases	1
Rated voltage $U_N$	AC 115/230 V
Operation voltage range	AC 88–264 V / DC 120–375 V
Line frequency	47 – 63 Hz
Rated current $I_N$	2.4 A @ AC 115 V / 12 A @ AC 230 V
Inrush current	30 A @ AC 115 V / 60 A @ AC 230 V
Internal fuse	T6, 3 A/AC 250 V
External fuse	Mini-circuit breaker: B 10 A, C 6 A
Power Factor Correction P.F.C.	0.7

### Output

Rated voltage $U_N$	DC 24.00 V
Rated current $I_N$	10.00 A
Heat dissipation	35 A @ AC 230 V
Setting range $U_{out\ min.}/U_{out\ max.}$	22.5/28.5 V
Accuracy	±1 %
Load regulation	Single ±1 %, Parallel ±5 %
Line regulation	±0.5 %
Rise time	1 s
Temperature coefficient	±0.03 % / °C
Ripple and Noise	100 mV
Hold up time	25 ms @ 115 V / 30 ms @ 230 V
Status indication DC ON LED green	≥17.6–19.4 V
Status indication DC LOW LED red	≤17.6–19.4 V
Parallel / redundant mode	max. 3 units at 90% load current, manual switch S/P
Efficiency	89 %
Over voltage protection	120–145 %
Rated over load protection	105–145 %
Short circuit	Current limit

### Monitoring

DC ON Control (Rdy)	N/O contact
Switching voltage	DC 60 V
Switching current	max. 300 mA
Isolation voltage	DC 500 V

### General

Switching frequency	approx. 40 kHz
Insulation voltage input / output	DC 4.2 kV
Insulation voltage input / ground	DC 2.1 kV
Insulation voltage output / ground	DC 700 V

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Insulation resistance at DC 500 V	100 MΩ
Derating	Capacity: -2.5 %/°C starting at +61 °C
Operation temperature range	-40 °C ... +71 °C (Derating)
Storage temperature range	-25 °C ... +85 °C
MTBF	423000 h
Relative air humidity	20 – 90 % RH, not condensing
Cooling	Air convection, 25 mm clearance all-round
Housing material	Metal
Mounting	DIN rail mountable TS35 (EN 60715)
Application height	4850 m
Installation position	vertical
Protection class	IP20
Protection class	I
Over voltage category	II
Degree of pollution	2
Weight	1.000 kg/piece
Connection device	Screw terminal 0.20 mm <sup>2</sup> – 4.0 mm <sup>2</sup> max. 0.62 Nm
Dimensions (w × h × d)	83.0 × 126.0 × 116.0 mm
Approvals	cULus (E249179)
Standards	UL 60950-1 EN 60950-1 EN 61000-6-3 EN 55022 Class B EN 61000-3-2 EN 61000-3-3 EN 61000-6-2 EN 55024 Class I Division 2, Groups A, B, C, D
PU	1 piece

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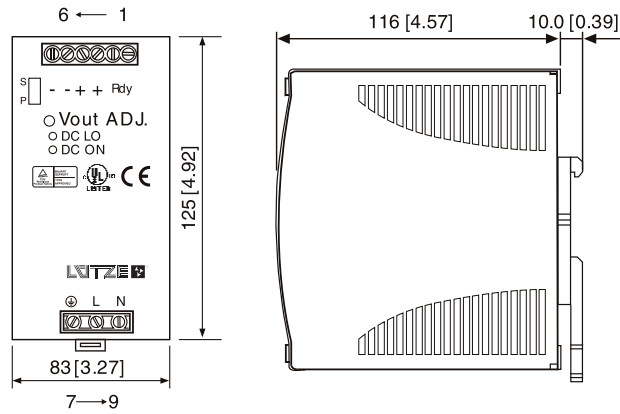
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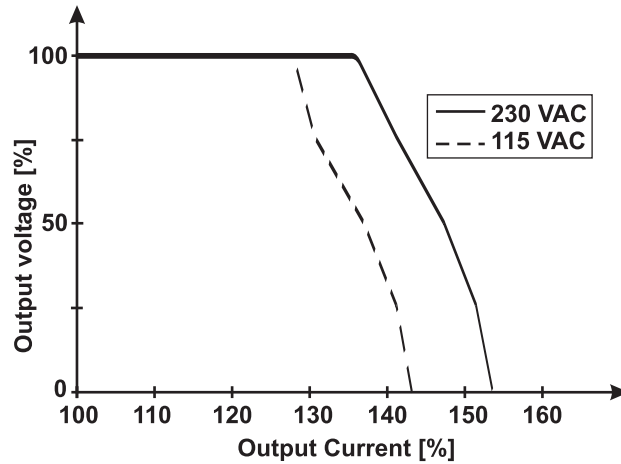
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## Dimensions



## Short circuit characteristics



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