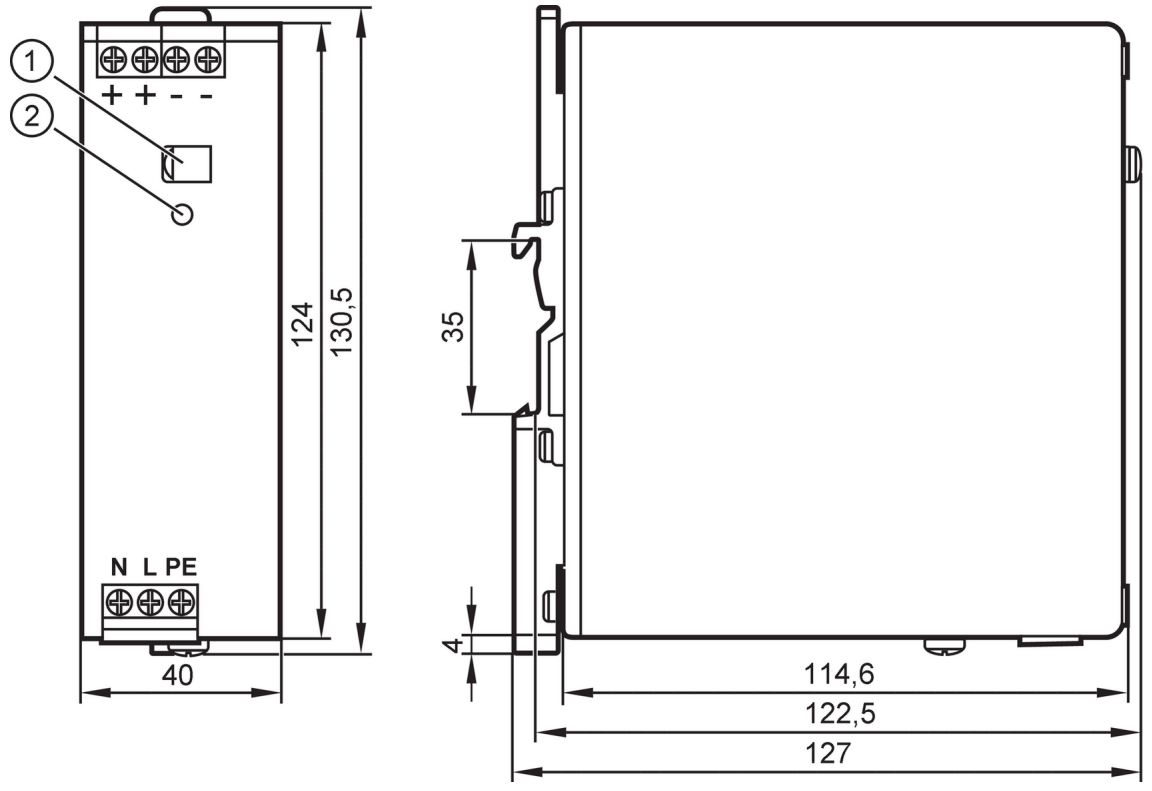
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Switched-mode power supply 24 V DC

PSU-1AC/24VDC-3,3A



1 potentiometer 24...28 V DC
2 LED DC ok

Application		
Design		housing for DIN rail mounting
Electrical data		
Frequency AC	[Hz]	47...64
Nominal voltage AC	[V]	< 230
Input voltage DC	[V]	110...300; (-20 % / +25 %)
Input voltage range AC	[V]	100...240; (-10 % / +10 %)
Output voltage DC	[V]	24...28
Protection class		I; (IEC 61140)
Overvoltage protection		yes; (< 39 DC)
Output voltage	[V]	adjustable; output voltage to SELV, PELV
Max. output current at min. output voltage	[A]	3.3
Max. output current at max. output voltage	[A]	2.7
Max. output current peak at min. output voltage	[A]	3.3
Max. output current peak at max. output voltage	[A]	2.7
Output power (permanent)	[W]	80
Output power (peak)	[W]	80
Power factor (nominal voltage 120 V AC / 60 Hz)		0.61

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Power factor (nominal voltage 230 V AC / 50 Hz)			0.56
Number of output circuits			1
Max. residual ripple	[mV]		50
Switch-on peak current (nominal voltage 120 V AC / 60 Hz)	[A]		23
Switch-on peak current (nominal voltage 230 V AC / 50 Hz)	[A]		45
Inrush current limitation			yes
Efficiency (nominal voltage 120 V AC / 60 Hz)	[%]		88
Efficiency (nominal voltage 230 V AC / 50 Hz)	[%]		89.8
External input protection			≥ B-10 A / ≥ C-6 A
Derating	[W/K]		1.8 (60...70 °C)
Mains buffering time (nominal voltage 120 V AC / 60 Hz)	[ms]		30
Mains buffering time (nominal voltage 230 V AC / 50 Hz)	[ms]		128
Input current (nominal voltage 120 V AC / 60 Hz)	[A]		1.24
Input current (nominal voltage 230 V AC / 50 Hz)	[A]		0.68
Power loss (nominal voltage 120 V AC / 60 Hz)	[W]		11.1
Power loss (nominal voltage 230 V AC / 50 Hz)	[W]		9.1
Back feeding protection	[V]		35
Outputs			
Overload protection			yes
Overload performance			output current constant
Operating conditions			
Ambient temperature	[°C]		-25...70
Note on ambient temperature			observe the free space for convection (see operating instructions)
Storage temperature	[°C]		-40...85
Max. relative air humidity	[%]		95; (IEC 60068-2-30)
Protection			IP 20; (EN 60529)
Pollution degree			2; (IEC 62103: conductive soiling not permitted)
Tests / approvals			
EMC		EN 61000-6-1	
		EN 61000-6-2	
		EN 61000-6-3	
		EN 61000-6-4	
		EN 61000-3-2	Class A
Vibration resistance		IEC 60068-2-6	±1,6 mm 2...17,8 Hz / 2 g 17,8...500 Hz
Shock resistance		IEC 60068-2-27	30 g 6 ms / 20 g 11 ms
MTTF	[years]		204

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Power Factor Correction (PFC)		met

Mechanical data

Weight	[g]	569
Housing		rectangular
Type of mounting		mounting on DIN rail; (TH35 (EN 60715))
Dimensions	[mm]	124 x 40 x 122.5
Materials		housing: steel sheet

Displays / operating elements

Display	DC ok	1 x LED

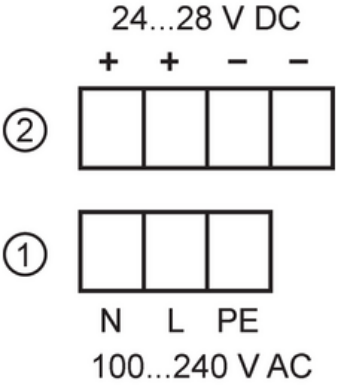
Remarks

Remarks	Series connection of outputs only applies to identical units up to max. 150 V DC overall voltage
Pack quantity	1 pcs.

Electrical connection

screw terminals:

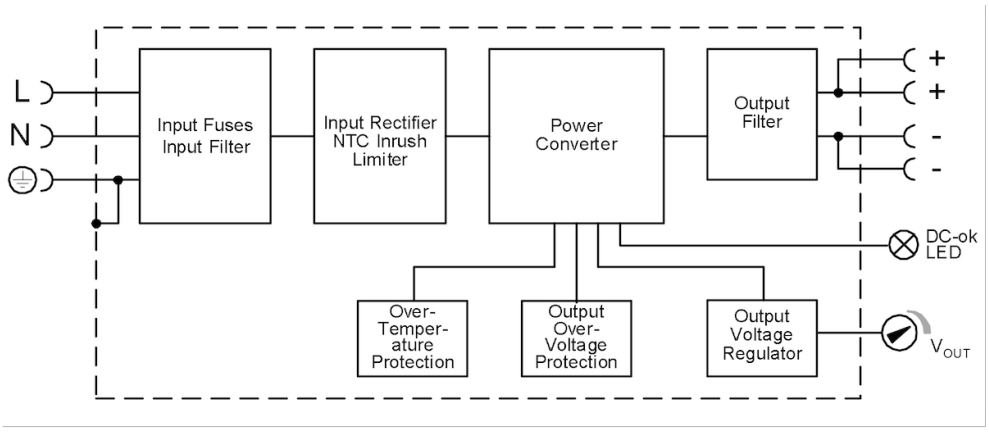
Connection



1: primary
2: secondary

Diagrams and graphs

block diagram

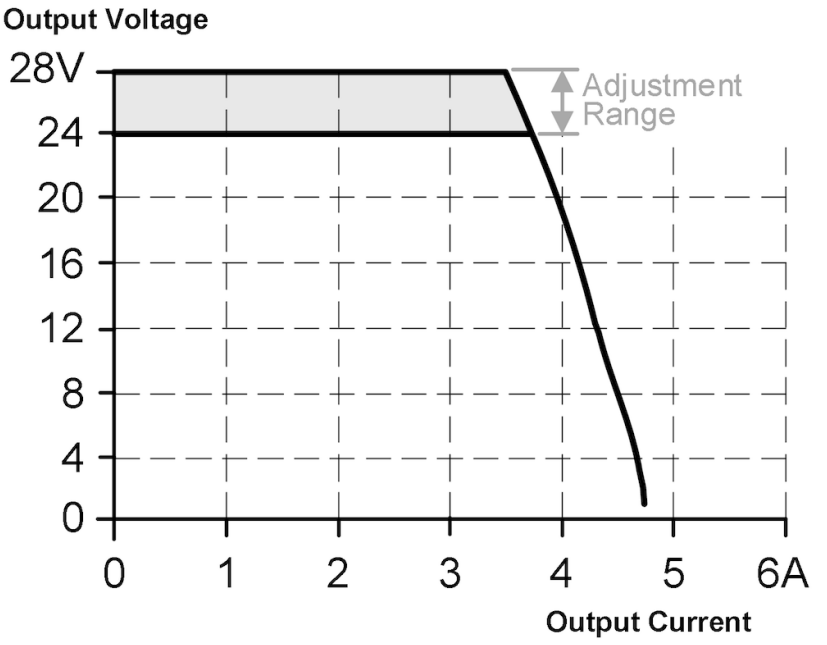


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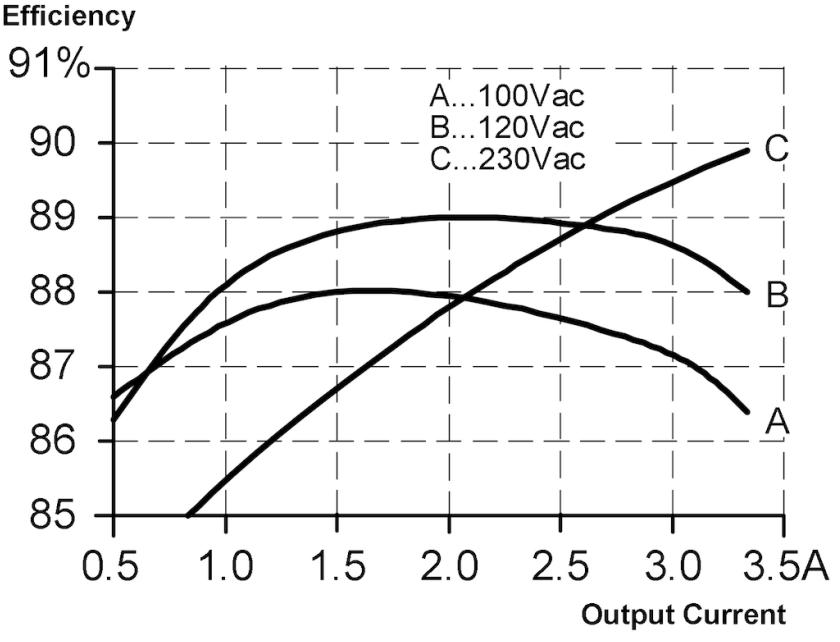
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output characteristics



characteristic curve for degree of efficiency / power loss

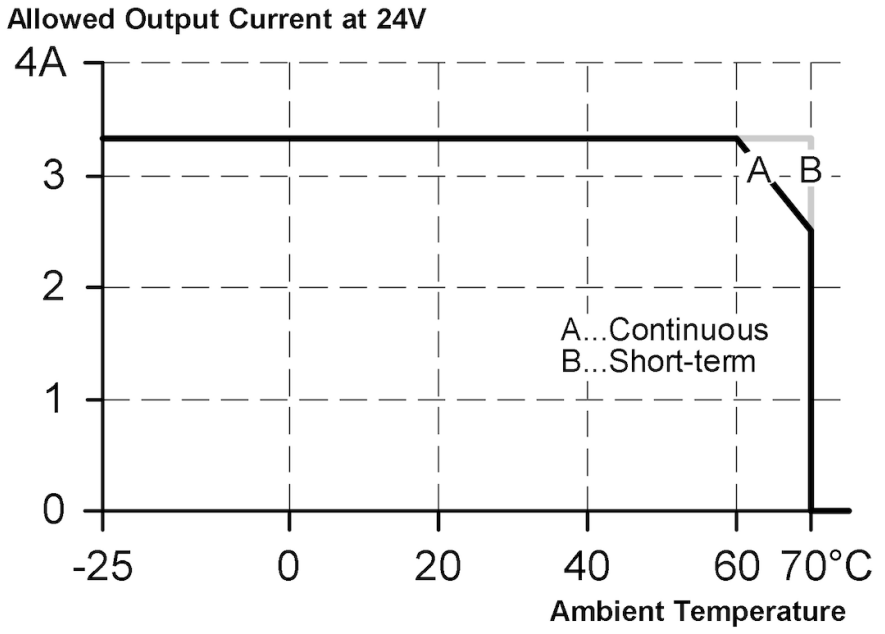


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characteristic line for derating



characteristic line for mains buffering time

