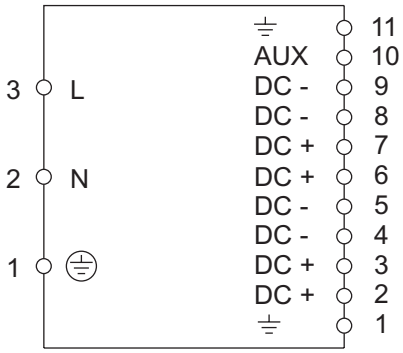
Power Supply Unit

Primary switched-mode, 10 A, wide input voltage range AC 85-264 V

Data sheet



Description	Item-No.	Pack.-unit pcs
Front-entry wiring, output voltage indication, PFC (Power Factor Correction)	787-904	1

Industrial 250 W power supply unit

with universal input voltage range and 88 % efficiency that can be snapped onto DIN 35 rails with built-in active Power Factor Correction → PFC > 0.97 in accordance with DIN IEC/EN 61000-3-2, class D.

This power supply unit already meets the requirements of the standard IEC/EN 61000-3-2 thanks to its active correction. This standard specifies that as of the year 2005 (probable) all units having an input power higher than 50 W must comply with specific limit values for the input current harmonic content when they are supplied by a public electrical network.

In comparison with the passive power factor correction via a large input choke, which remains normal today, the active power factor correction reduces the rms value of the input current. Thanks to this, a 10 or 16 A unit can produce more power, which reduces the unit total cost.

For higher current, the outputs of several units with epual nominal output voltage can be connected in parallel without any precautions.
For higher output voltage, the connection of several outputs in series is possible without any precautions. Exceeding however the SELV value of DC 60 V the output should be connected to ground.

Technical Data

Input:	
Input voltage	AC 85–264 V, 47-63 Hz, DC 90-250 V
Input current	2.5 A (125 V); AC 1.35 A (230 V)
Peak inrush current	< 5 A
Input fuse	6.3 A slow
Function indication	LED, green
Max. power consumption	250 W
Output:	
Output voltage	DC 24 V, accuracy 0...+7.5 %
Output power	250 W
Nominal output current	10 A
Efficiency (AC 230 V)	88 %
Power factor correction (AC 230 V)	> 0.97
Deviation:	
static load change	350 mV
dyn. load change 10 – 90%	2.6–3 V
at V_{in} ± 10 %	none
Peak-to-average Ripple factor	5 %
Ripple voltage	50 mV_{typ} acc. to IEC/EN 61204
Switching peak 20 MHz	ca. 20 mV
Start-up time	700 ms
Output current limit	1 s ... 1.5 x I_N / 1.0 ... 1.1 x I_N
Output hold-up time	15 ms
Output protection measures	Overload and short-circuit protection
Dielectric strength	
input / output	AC 3 kV
Nominal operating mode	100 % continuous duty

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General data:	
MTBF	> 600,000 h (GB, 40 °C)
Vibration resistance	5 g at 10-2000 Hz
Shock resistance	50 g
Bump resistance	25 g
Ambient operating temperature	-40 °C...+60 °C
Relative air humidity	93 %, no condensation
Storage temperature	-40 °C...+100 °C
Mounting system	To be snapped onto DIN rail (EN 50022)
	for vertical mounting, modular
Wire connection	Terminal blocks with CAGE CLAMP®
	(WAGO series 236)
	0.08-2.5 mm² / AWG 28-14
Stripped length	5-6 mm / 0.22 in
Weight	1.7 kg / 3.74 lbs
Dimensions (WxHxD)	(103 x 114* x 138) mm
	(4.06 x 4.49* x 5.43) in
	* from upper edge of DIN35 rail
Standards / prescriptions	
	EN 60950, VDE 0805, EN 50081-1,
	EN 50081-2, EN 50082-2, EN 60555-2,
	EN 61000-3-2, EN 55011/55022,
	EN 61000-4-2,-3,-4,-5,-6,-11
	IEC/EN 61204, EN 60068
	UL 1950, UL 508 Listed

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