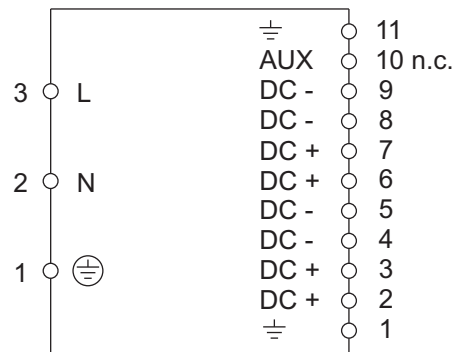


Power Supply Unit

1/2

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 equal 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% at $V_{in} \pm 10\%$ 2.6–3 V 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	

Power Supply Unit

2/2

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

Data sheet

	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)
	Wire connection	for vertical mounting, modular
		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	