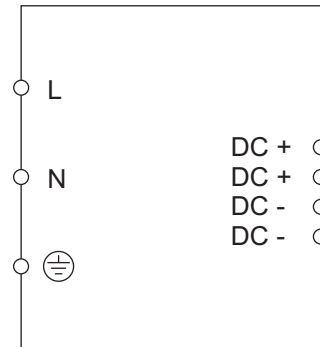


Power Supply Unit

1/2

Primary switched-mode, DC 12 V / 4 A

Preliminary data sheet



Description	Item-No.	Pack.-unit pcs																																																								
Input AC/DC 230 V ; Output DC 12 V / 4 A	787-611	1																																																								
<p>Power supply unit with a broad input voltage range for assembly onto DIN 35 rail.</p> <p>Characteristics:</p> <ul style="list-style-type: none"> • U/I characteristic. • Short circuit proof. • Open circuit proof. • Use of switching regulator controller technology ensures compact design. • High efficiency. • Overload-proof (short time). • Cutoff in case of thermal overload. • Output voltage range adjustable. 	<p>Technical Data</p> <table border="1"> <tr> <td colspan="2">Input</td> </tr> <tr> <td>Nominal voltage $U_{I\ nom}$</td> <td>AC/DC* 230 V</td> </tr> <tr> <td>Voltage range</td> <td>AC 90-264 V DC* 130-300 V</td> </tr> <tr> <td></td> <td>* Use of DC requires external protection</td> </tr> <tr> <td>Frequency</td> <td>50-60 Hz</td> </tr> <tr> <td>Input current I_i</td> <td>0.5 A_{typ.} at AC 230 V</td> </tr> <tr> <td>Inrush current</td> <td><30 A_p</td> </tr> <tr> <td>Output hold-up time</td> <td>>20 ms</td> </tr> <tr> <td>Overvoltage protection</td> <td>Varistor at primary circuit</td> </tr> <tr> <td colspan="2">Output</td> </tr> <tr> <td>Nominal voltage $U_{O\ nom}$</td> <td>DC 12 V</td> </tr> <tr> <td>Voltage range</td> <td>DC 11-15 V adjustable</td> </tr> <tr> <td>Output current I_o</td> <td>4 A at DC 12 V</td> </tr> <tr> <td>Residual ripple</td> <td><100 mV_{pp} at 20 MHz</td> </tr> <tr> <td>Adjustment accuracy</td> <td>2 %</td> </tr> <tr> <td>Current limitation</td> <td>from approx. 1.1 x I_a (see output characteristic)</td> </tr> <tr> <td>Efficiency</td> <td>84 %_{typ.} (at nominal load)</td> </tr> <tr> <td>Power loss P_o</td> <td>1,25 W_{typ.} at U_{in} 115 V 1,42 W_{typ.} at U_{in} 230 V</td> </tr> <tr> <td>Safety extra low voltage</td> <td>SELV</td> </tr> <tr> <td colspan="2">General data</td> </tr> <tr> <td>Test voltage</td> <td>4.2 kV</td> </tr> <tr> <td>Degree of protection</td> <td>IP 20</td> </tr> <tr> <td>Protection class</td> <td>prepared for class I equipment</td> </tr> <tr> <td>Cooling system</td> <td>natural convection cooling when horizontally mounted</td> </tr> <tr> <td>Design</td> <td>encapsulated, for use in switchgear cabinets</td> </tr> <tr> <td>Parallel connection of power supply units</td> <td>not permissible</td> </tr> <tr> <td>Operation indicator</td> <td>LED green (12 V o.k.)</td> </tr> <tr> <td>Ambient operating temperature</td> <td>-10 °C...+70 °C</td> </tr> </table>		Input		Nominal voltage $U_{I\ nom}$	AC/DC* 230 V	Voltage range	AC 90-264 V DC* 130-300 V		* Use of DC requires external protection	Frequency	50-60 Hz	Input current I_i	0.5 A _{typ.} at AC 230 V	Inrush current	<30 A _p	Output hold-up time	>20 ms	Overvoltage protection	Varistor at primary circuit	Output		Nominal voltage $U_{O\ nom}$	DC 12 V	Voltage range	DC 11-15 V adjustable	Output current I_o	4 A at DC 12 V	Residual ripple	<100 mV _{pp} at 20 MHz	Adjustment accuracy	2 %	Current limitation	from approx. 1.1 x I _a (see output characteristic)	Efficiency	84 % _{typ.} (at nominal load)	Power loss P _o	1,25 W _{typ.} at U _{in} 115 V 1,42 W _{typ.} at U _{in} 230 V	Safety extra low voltage	SELV	General data		Test voltage	4.2 kV	Degree of protection	IP 20	Protection class	prepared for class I equipment	Cooling system	natural convection cooling when horizontally mounted	Design	encapsulated, for use in switchgear cabinets	Parallel connection of power supply units	not permissible	Operation indicator	LED green (12 V o.k.)	Ambient operating temperature	-10 °C...+70 °C
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<p>U_o Output characteristic curve (DC V)</p> <p>Io (DC A)</p>	Derating	-3 % / K (>50 °C)
	Storage temperature	-25 °C...+85 °C
	Relative air humidity	30-85 %, no condensation
	Mounting system	To be snapped onto DIN rail (EN 50022)
	Wire connection	Terminal blocks with CAGE CLAMP® (WAGO series 231)
		0.08-2.5 mm ² / AWG 28-12**
		** AWG12: THHN, THWN
	Stripped length	8-9 mm / 0.33 in
	Weight	600 g
	Dimensions (WxHxD)	(51 x 133 x 120***) mm (2.01 x 5.12 x 5.71***) in
		*** from upper edge of DIN35 rail
	Standards / prescriptions	
		EN 60950-1
		EN 61204-3
		EN 61204-7