

Power supply unit - ESSENTIAL-PS/1AC/24DC/240W/EE - 2910587

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)




Primary-switched ESSENTIAL POWER power supply for DIN rail mounting, input: 1-phase, output: 24 V DC / 240 W

Your advantages

- Worldwide use thanks to the wide range input and international approval package
- Fast installation, thanks to easy DIN rail mounting
- Greater availability, thanks to fanless convection cooling



Key Commercial Data

Packing unit	1 pc
GTIN	 4 055626 464404
GTIN	4055626464404
Weight per Piece (excluding packing)	966.600 g
Custom tariff number	85044030
Country of origin	Thailand

Technical data

Dimensions

Width	60 mm
Height	123.6 mm
Depth	117.6 mm
Installation distances left/right	10 mm
Installation distances top/bottom	50 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)

Power supply unit - ESSENTIAL-PS/1AC/24DC/240W/EE - 2910587

Technical data

Ambient conditions

Degree of pollution	2
Installation height	≤ 5000 m (> 2000 m, Derating: 10 %/1000 m)

Input data

Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range	85 V AC ... 264 V AC
AC frequency range	47 Hz ... 63 Hz
Discharge current to PE	< 1 mA (264 V AC)
Current consumption	2.8 A (115 V AC)
	1.4 A (230 V AC)
Nominal power consumption	273.22 VA
Inrush current	typ. 20 A (115 V AC)
	typ. 40 A (230 V AC)
Mains buffering time	typ. 10 ms (115 V AC)
	typ. 16 ms (230 V AC)
Input fuse	6.3 A (slow-blow, internal)
Type of protection	Transient surge protection
Protective circuit/component	Varistor

Output data

Nominal output voltage	24 V DC ±2 %
Setting range of the output voltage (U_{Set})	22 V DC ... 28 V DC (max. power ≤ 240 W)
Nominal output current (I_N)	10 A
Derating	> 40 °C (1.67 % / °C, 115 V AC)
	> 50 °C (2.5 % / °C, 230 V AC)
Max. capacitive load	8000 µF
Active current limitation	105% - 150% of the max. output power (in the event of short circuit)
Residual ripple	< 120 mV _{PP} (-10 °C ... +70 °C)
	< 240 mV _{PP} (-20 °C ... -10 °C)
Output power	240 W
Typical response time	1000 ms
Maximum power dissipation in no-load condition	4.62 W (115 V AC)
	2.14 W (230 V AC)
Power loss nominal load max.	31.53 W (115 V AC)
	25.44 W (230 V AC)

General

Net weight	0.8 kg
Operating voltage display	Green LED
Efficiency	88 % (115 V AC)
	90 % (230 V AC)
Insulation voltage input/output	3 kV AC