Power supply unit - STEP-PS/ 1AC/12DC/3 - 2868570

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Primary-switched STEP POWER power supply for DIN rail mounting, input: 1-phase, output: 12 V DC/3 A

Product Description

STEP POWER power supplies for installation distributors
The STEP POWER power supply range was developed especially for building automation. The low idling losses and high degree of efficiency ensure maximum energy efficiency. They allow flexible use and can be snapped onto the DIN rail or screwed onto an even surface.

Why buy this product

- Flexible mounting by simply snapping onto the DIN rail or screwing onto a level surface
- Reliable power supply thanks to high MTBF (mean time between failures) of more than 500,000 hours and U/I characteristic curve
- Energy savings thanks to maximum energy efficiency and incredibly low idling losses

RoHS

Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 309578
GTIN	4046356309578
Weight per Piece (excluding packing)	190.000 g
Custom tariff number	85044030
Country of origin	Poland

Technical data

Dimensions

Width	54 mm
Height	90 mm
Depth	61 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 55° C derating : 2.5%/K)

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Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Noise immunity	EN 61000-6-2:2005

Input data

Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range	85 V AC ... 264 V AC
	95 V DC ... 250 V DC
AC frequency range	45 Hz ... 65 Hz
Frequency range DC	0 Hz
Current consumption	0.6 A (120 V AC)
	0.3 A (230 V AC)
Inrush surge current	< 15 A (typical)
Power failure bypass	> 26 ms (120 V AC)
	> 160 ms (230 V AC)
Input fuse	3.15 A (slow-blow, internal)
Choice of suitable circuit breakers	6 A ... 16 A (Characteristics B, C, D, K)
Type of protection	Transient surge protection
Protective circuit/component	Varistor

Output data

Nominal output voltage	12 V DC ±1 %
Setting range of the output voltage (U_{Set})	10 V DC ... 16.5 V DC (> 12 V DC, constant capacity restricted)
Nominal output current (I_N)	3 A (-25°C ... 55°C)
	3.3 A (-25 °C ... 40 °C permanent)
Output current I_{max}	4.9 A
Derating	55 °C ... 70 °C (2.5%/K)
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	yes
Control deviation	< 1 % (change in load, static 10 % ... 90 %)
	< 2 % (change in load, dynamic 10 % ... 90 %)
	< 0.1 % (change in input voltage ±10 %)
Residual ripple	< 40 mV_{PP} (20 MHz)
Output power	36 W
Typical response time	< 0.5 s
Peak switching voltages nominal load	< 35 mV_{PP} (20 MHz)
Maximum power dissipation in no-load condition	< 0.5 W
Power loss nominal load max.	6.4 W

General

Net weight	0.19 kg
Operating voltage display	Green LED