Power supply unit - MINI-PS-100-240AC/2X15DC/1 - 2938743

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Primary-switched MINI POWER power supply for DIN rail mounting, input: 1-phase, output: 2x 15 V DC/1 A

Product Description

MINI POWER power supplies for MCR technology
In measurement and control technology (MCR), modular electronics housing has become the industry standard. MINI POWER is the power supply unit to go with it. The devices are flexible, thanks to special voltages and special versions.

Why buy this product

- Easy-maintenance connection technology thanks to keyed COMBICON connectors
- Remote monitoring of output voltage via switching output

Key Commercial Data

Packing unit	1 STK
GTIN	4 017918 906870
GTIN	4017918906870
Weight per Piece (excluding packing)	250.000 g
Custom tariff number	85044030
Country of origin	Poland

Technical data

Dimensions

Width	45 mm
Height	99 mm
Depth	107 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C Derating: 2,5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C

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Ambient conditions

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
	90 V DC ... 350 V DC
AC frequency range	45 Hz ... 65 Hz
Current consumption	0.6 A (120 V AC)
	0.4 A (230 V AC)
	0.8 A (90 V DC)
	0.3 A (350 V DC)
Inrush surge current	< 35 A (typical)
Power failure bypass	> 30 ms (120 V AC)
	> 150 ms (230 V AC)
Input fuse	2.5 A (slow-blow, internal)
Choice of suitable circuit breakers	6 A ... 16 A (Characteristics B, C, D, K)

Output data

Nominal output voltage	± 15 V DC ±1 %
Nominal output current (I_N)	2x 1 A (-25 °C ... 60 °C)
POWER BOOST (I_{Boost})	2x 1.5 A (-25°C ... 40°C permanent)
Derating	60 °C ... 70 °C (2.5%/K)
Connection in parallel	Yes, for assembling redundant systems and increasing efficiency
Connection in series	yes
Active current limitation	Approx 4.4 A (in the event of a short circuit)
Control deviation	< 2 % (change in load, static 10 % ... 90 %)
	< 3 % (change in load, dynamic 10 % ... 90 %)
	< 0.1 % (change in input voltage ±10 %)
Residual ripple	< 30 mV_{PP} (20 MHz)
Output power	15 W
Typical response time	< 1 s
Peak switching voltages nominal load	< 20 mV_{PP} (20 MHz)
Maximum power dissipation in no-load condition	2 W
Power loss nominal load max.	8 W

General

Net weight	0.25 kg
Operating voltage display	Green LED
Efficiency	> 80 % (for 230 V AC and nominal values)
Insulation voltage input/output	4 kV (type test)
	3 kV (routine test)