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Power supply unit - MINI-PS-120-230AC/24DC/0.65 - 2938497

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Power supply unit, primary switched-mode

Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	204.600 g
Custom tariff number	85044094
Country of origin	Germany

Technical data

Dimensions

Width	22.5 mm
Height	99 mm
Depth	114.5 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C (UL up to 50°C)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (at 25 °C, non-condensing)

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	47 Hz ... 63 Hz
Frequency range DC	0 Hz
Current consumption	0.2 A (at 230 V AC, nominal load)
	0.4 A (at 120 V AC, nominal load)
Inrush current	< 10 A (at 25°C, < 1 ms)

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Technical data

Input data

Mains buffering time	> 30 ms (at 120 V AC)
	> 100 ms (for 230 V AC)
Input fuse	Internal

Output data

Nominal output voltage	24 V DC ±3 %
Nominal output current (I_N)	0.65 A (up to 60°C)
POWER BOOST (I_{Boost})	1.2 A
Connection in parallel	Yes, for assembling redundant systems
Connection in series	yes
Residual ripple	< 100 mV_{PP}
Output power	15.6 W
Typical response time	< 1 s
Peak switching voltages nominal load	< 20 mV_{PP} (20 MHz)
Maximum power dissipation in no-load condition	< 2.2 W
Power loss nominal load max.	< 3.2 W

General

Net weight	0.14 kg
Efficiency	> 80 % (for 230 V AC and nominal values)
MTBF (IEC 61709, SN 29500)	> 500000 h
Insulation voltage input/output	3 kV (routine test)
	4 kV (type test)
Degree of protection	IP20
Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715
Assembly instructions	alignable: vertical with spacing > 10 cm, horizontal with zero spacing

Connection data, input

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	2.5 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	7 mm
Screw thread	M3

Connection data, output

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Technical data

Connection data, output

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
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Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	7 mm

Signaling

Status display	Green LED (DC OK = LED permanently lit)

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
Standard - Safe isolation	DIN VDE 0100-410

Classifications

eCl@ss

eCl@ss 4.0	27040702
eCl@ss 4.1	27040702
eCl@ss 5.0	27242213
eCl@ss 5.1	27242213
eCl@ss 6.0	27049005

ETIM

ETIM 2.0	EC001039
ETIM 3.0	EC001039
ETIM 4.0	EC000599

UNSPSC

UNSPSC 6.01	30211502
UNSPSC 7.0901	39121004
UNSPSC 11	39121004
UNSPSC 13.2	39121004

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