Extract from the online catalog

MINI-PS-100-240AC/ 5DC/3

Order No.: 2938714

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DIN rail power supply unit 5 V DC/3 A, primary-switched mode, slim design

Product notes

WEEE/RoHS-compliant since: 03/01/2006

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Commercial data	
GTIN (EAN)	4 017918 900502
sales group	H045
Pack	1 pcs.
Customs tariff	85044082
Catalog page information	Page 598 (IF-2011)

Technical data

Input data

Nominal input voltage	100 V AC ... 240 V AC
AC input voltage range	85 V AC ... 264 V AC
DC input voltage range	90 V DC ... 350 V DC
AC frequency range	45 Hz ... 65 Hz

DC frequency range	0 Hz
Current consumption	Approx. 0.4 A (120 V AC)
	0.2 A (230 V AC)
	Approx. 0.4 A (90 V DC)
	Approx. 0.2 A (350 V DC)
Nominal power consumption	15 W
Inrush surge current	< 15 A (typical)
Power failure bypass	> 30 ms (120 V AC)
	> 140 ms (230 V AC)
Input fuse	2 A (slow-blow, internal)
Permissible backup fuse	B6
	B10
	B16

Output data

Nominal output voltage	5 V DC ±1%
Setting range of the output voltage	4.5 V DC ... 5.5 V DC (> 5 V constant capacity)
Output current	3 A (-25 °C ... 60 °C)
	5 A (with POWER BOOST, -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
Residual ripple	< 40 mV_{PP} (20 MHz)
Peak switching voltages nominal load	< 100 mV_{PP} (20 MHz)
Maximum power dissipation idling	1 W
Power loss nominal load max.	5 W

General data

Width	22.5 mm
Height	99 mm
Depth	107 mm
Net weight	0.17 kg
Operating voltage display	Green LED
Efficiency	> 73 % (At 230 V AC and nominal values)
Insulation voltage input/output	3 kV (routine test)
	4 kV (type test)

Degree of protection	IP20
Protection class	II (in an enclosed control cabinet)
MTBF (IEC 61709, SN 29500)	> 500000 h
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C derating)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (at 25 °C, no condensation)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontal 0 cm, vertical 5 cm
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 50081-2
Noise immunity	EN 61000-6-2:2005
Low Voltage Directive	Conformance with LV directive 2006/95/EC
Standard - Safety of transformers	EN 61558-2-17
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard - Safe isolation	DIN VDE 0100-410
	DIN VDE 0106-1010
Standard – Limitation of mains harmonic currents	EN 61000-3-2
Standard – Equipment safety	GS (tested safety)
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950
	UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D

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 stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	7 mm
Screw thread	M3

Connection data, output	
Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	7 mm

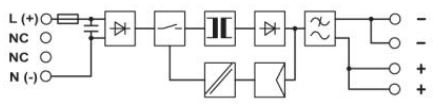
Signaling	
Output name	DC OK active
Status display	"DC OK" LED green
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Screw thread	M3

Certificates / Approvals

Certification	CUL, CUL Listed, GOST, UL, UL Listed
Certification Ex:	CUL-EX LIS, UL-EX LIS

Diagrams/Drawings

Block diagram



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