

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

Order No.: 2938714

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2938714>

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

Commercial data	
EAN	4017918900502
Pack	1 pcs.
Customs tariff	85044040
Weight/Piece	0.1914 KG
Catalog page information	Page 578 (IF-2009)

## Product notes

WEEE/RoHS-compliant since:  
08/17/2006

<http://www.download.phoenixcontact.com>  
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Technical data	
<b>Input data</b>	
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 (for 90 V DC)
	Approx. 0.2 A (for 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	6 A (characteristic B)
	10 A (characteristic B)
	16 A (characteristic B)
<b>Output data</b>	
Nominal output voltage	5 V DC $\pm$ 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	From +60°C to 70°C: 2.5% per Kelvin
Connection in parallel	Yes, for assembling redundant systems and increasing efficiency
Connection in series	No
Residual ripple	< 40 mV <sub>PP</sub> (20 MHz)
Peak switching voltages nominal load	< 100 mV <sub>PP</sub> (20 MHz)
Maximum power dissipation idling	1 W
Power loss nominal load max.	5 W
<b>General data</b>	
Width	22.5 mm
Height	99 mm
Depth	107 mm
Weight	0.17 kg
Operating voltage display	LED green
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
Class of protection	II (in an enclosed control cabinet)
MTBF	> 500 000 h in acc. with IEC 61709 (SN 29500)
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 guideline 2004/108/EC and for low-voltage guideline 2006/95/EC
Emitted interference	EN 50081-2
Immunity to interference	EN 61000-6-2:2005
Standard - Safety of transformers	EN 61558-2-17
Standard - Electrical safety	EN 60950/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

Type of connection	Pluggable screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	7 mm
Screw thread	M3

#### Connection data, output

Type of connection	Pluggable screw connection
--------------------	----------------------------

Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
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

### Certificates / Approvals

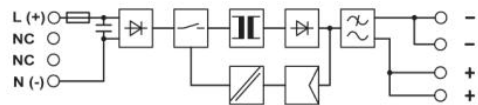


Certification CUL Listed, GOST, UL Listed

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

### Diagrams/Drawings

Block diagram



Approbationslogos (EX-Bereich)

---



**Address**

PHOENIX CONTACT Inc., USA  
586 Fulling Mill Road  
Middletown, PA 17057, USA  
Phone (800) 888-7388  
Fax (717) 944-1625  
<http://www.phoenixcon.com>



© 2010 Phoenix Contact  
Technical modifications reserved;