

## QUINT-PS-120AC/24DC/1

This product has been replaced by a newer version.

Order No.: 2939247

The illustration shows the version QUINT-PS-230AC/24DC/1



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2939247>

Power supply unit, primary switched-mode, input 120 V AC, output 24 V DC/1 A

### Commercial data

EAN	4017918155322
Pack	1 Pcs.
Customs tariff	85044081
Weight/Piece	0.5988 KG

<http://www.download.phoenixcontact.com>  
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### Technical data

#### Input data

Nominal input voltage	120 V AC
AC input voltage range	93 V AC ... 132 V AC
AC frequency range	47 Hz ... 63 Hz
Current consumption	Approx. 0.35 A
Inrush surge current	< 18 A (at 25°C)
Power failure bypass	> 20 ms
Input fuse	1 A (slow-blow, soldered internally)

#### Output data

Nominal output voltage	24 V DC $\pm$ 1,5 % (typical)
Setting range of the output voltage	(fixed voltage)

Output current	1 A
Connection in parallel	Yes, for assembling redundant systems and increasing efficiency
Residual ripple	150 mV <sub>PP</sub>
Peak switching voltages idling	100 mV <sub>PP</sub> (1.2 MHz bandwidth)
Maximum power dissipation idling	2 W
Power loss nominal load max.	5 W

**General data**

Width	107 mm
Height	78 mm
Depth	87 mm
Weight	0.45 kg
Operating voltage display	LED
Efficiency	> 84 %
Insulation voltage input/output	1.8 kV (routine test) 3 kV (type test)
Degree of protection	IP20
Class of protection	I, with PE connection
MTBF	> 500000 h in acc. with SN 29500
Ambient temperature (operation)	-20 °C ... 70 °C (UL up to 50°C)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	Up to 95 % (at 25°C, no condensation)
Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715
Assembly instructions	Can be aligned: Vertical with spacing = 10 cm, horizontal with zero spacing
Standard - Electrical safety	EN 60950/VDE 0805 DIN EN 50178/VDE 0160:1998-04 UL 508C CSA C22.2-14 UL 1950 CSA C22.2-950 DIN VDE 0100-410 DIN VDE 0106-101

**Connection data, input**

Type of connection	COMBICON screw/plug 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	14
Stripping length	8 mm
Screw thread	M 2,5

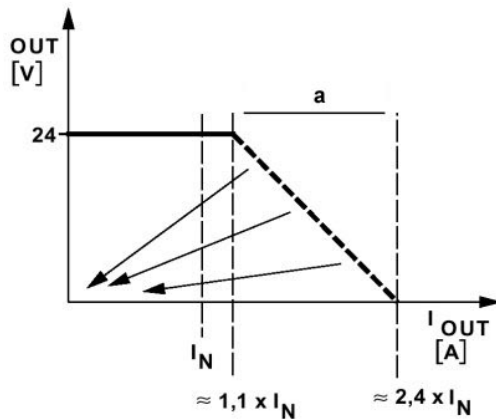
**Connection data, output**

Type of connection	COMBICON screw/plug 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	14
Stripping length	8 mm

**Drawings**

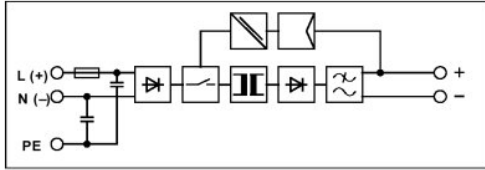
Diagram

a = overload range



Circuit diagram

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