

<https://www.phoenixcontact.com/gb/products/2939263>

## Power supply unit - QUINT-PS-120AC/24DC/5/F - 2939263


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Power supply unit, primary switched-mode, input 120 V AC, output 24 V DC/5 A, with filter

The figure shows the version  
QUINT-PS-230AC/24DC/5 F

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 148102
GTIN	4017918148102
Weight per Piece (excluding packing)	1,291.900 g
Custom tariff number	85044094
Country of origin	Germany

### Technical data

#### Dimensions

Width	180 mm
Height	78 mm
Depth	87 mm

#### Ambient conditions

Degree of protection	IP20
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, non-condensing)

#### Input data

Nominal input voltage	120 V AC
Input voltage range	93 V AC ... 132 V AC
AC frequency range	47 Hz ... 63 Hz
Current consumption	approx. 1.53 A
Inrush current	< 23 A (at 25 °C)
Mains buffering time	> 20 ms
Input fuse	4 A (slow-blow, soldered internally)

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#### Output data

Nominal output voltage	24 V DC $\pm 1.5\%$ (typical)
Setting range of the output voltage ( $U_{Set}$ )	fixed voltage
Nominal output current ( $I_N$ )	5 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 in no-load condition	< 4 W
Power loss nominal load max.	< 20 W

#### General

Net weight	1.2 kg
Operating voltage display	LED
Efficiency	> 86 %
Insulation voltage input/output	1.8 kV (routine test)
	3 kV (type test)
Degree of protection	IP20
MTBF (IEC 61709, SN 29500)	> 500000 h
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 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	8 mm
Screw thread	M2,5

#### Connection data, output

Connection method	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 flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
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#### Standards and Regulations

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#### Standards and Regulations

Standard - Electrical safety	EN 60950/VDE 0805-1
	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

### 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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