

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

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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

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

Technical data

Input data

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)

Output data

Nominal output voltage	24 V DC ± 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 _{PP}
Peak switching voltages idling	100 mV _{PP} (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 %
MTBF (IEC 61709, SN 29500)	> 500000 h
Insulation voltage input/output	1.8 kV (routine test)
	3 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 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
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
-------------------	----------------------------

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

Technical data

Connection data, output

Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Stripping length	8 mm
Screw thread	M2,5

Standards and Regulations

Standard - Electrical safety	EN 60950/VDE 0805-1
	DIN EN 50178/VDE 0160
	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

