


Power supply unit - QUINT-PS-230AC/24DC/5/F - 2939360

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Power supply unit, primary switched-mode, input 230 V AC, output 24 V DC/5 A, with filter

Key commercial data

Packing unit	1 pc
GTIN	 4 017918 148133
Weight per Piece (excluding packing)	1280.0 GRM
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 (see derating curve, UL up to +50°C)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (at 25°, non-condensing)

Input data

Nominal input voltage	230 V AC
Input voltage range	187 V AC ... 264 V AC
Short-term input voltage	270 V AC (1 min.)
AC frequency range	47 Hz ... 63 Hz
Current consumption	approx. 0.8 A
Inrush surge current	< 12 A (at 25 °C)

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Input data

Power failure bypass	> 20 ms
Input fuse	4 A (slow-blow, soldered internally)

Output data

Number of outputs	1
Nominal output voltage	24 V DC \pm 1.5 % (typical)
Output current	5 A
Connection in parallel	Yes, for assembling redundant systems
Max. capacitive load	Approx. 30 000 mF
Active current limitation	> 1.1 x I _N
Control deviation	< 1 %
	< 5 %
	< 10 %
Residual ripple	150 mV _{PP}
Peak switching voltages idling	100 mV _{PP} (1.2 MHz bandwidth)
Maximum power dissipation NO-Load	< 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)
MTBF (IEC 61709, SN 29500)	> 500000 h
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

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm ²

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Connection data, input

Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil 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 ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm

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

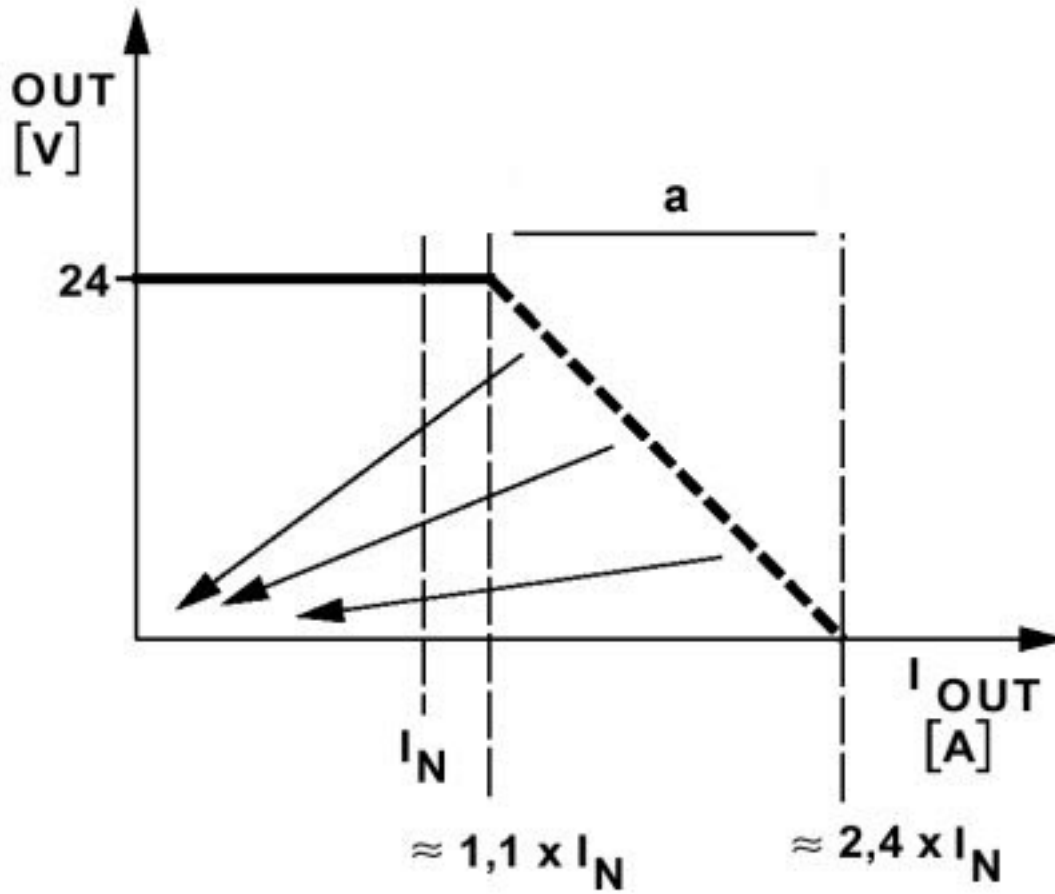
UNSPSC

UNSPSC 6.01	30211502
UNSPSC 7.0901	39121004
UNSPSC 11	39121004
UNSPSC 13.2	39121004

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Drawings

Diagram



a = overload range

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Circuit diagram

