

Power supply unit - QUINT-PS-3X400AC/24DC/30/F - 2939399

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Power supply unit, primary switched-mode, input 3 x 400 V AC, output 24 V DC/30 A, with filter

Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 155247
GTIN	4017918155247
Weight per Piece (excluding packing)	5,220.000 g
Custom tariff number	85044094
Country of origin	Slovakia

Technical data

Dimensions

Width	230 mm
Height	156 mm
Depth	150 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 70 °C (UL up to 50°C)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (at 25 °C, non-condensing)

Input data

Nominal input voltage	3x 400 V AC
Input voltage range	325 V AC ... 460 V AC
AC frequency range	47 Hz ... 63 Hz
Current consumption	approx. 3 A
Inrush current	< 29 A (at 25 °C)

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Input data

Mains buffering time	> 20 ms
Input fuse	6 A (externally via circuit breaker, characteristic B)

Output data

Nominal output voltage	24 V DC $\pm 1\%$
Setting range of the output voltage (U_{Set})	22.5 V ... 28.5 V (> 24 V DC, constant capacity restricted)
Nominal output current (I_N)	30 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 no-load power dissipation	< 9 W
Power loss nominal load max.	< 98 W

General

Net weight	4.8 kg
Operating voltage display	LED
Efficiency	> 88 %
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
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	16 mm ²

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Connection data, output

Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	10 mm ²
Conductor cross section AWG min.	20
Conductor cross section AWG max.	6
Stripping length	8 mm
Screw thread	M2,5

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
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

