

Power supply unit - QUINT-PS-3X400-500AC/24DC/30 - 2938633

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DIN rail power supply unit 24 V DC/30 A, primary switched-mode, 3-phase.



Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	3859.8 g
Custom tariff number	85044030
Country of origin	Germany

Technical data

Dimensions

Width	240 mm
Height	130 mm
Depth	130 mm
Width with alternative assembly	122 mm
Height with alternative assembly	243 mm
Depth with alternative assembly	243 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C Derating: 2,5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (at 25 °C, non-condensing)
Noise immunity	EN 61000-6-2:2005

Input data

Nominal input voltage range	3x 400 V AC ... 500 V AC
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Input data

Input voltage range	3x 320 V AC ... 575 V AC (for all three phases)
	450 V DC ... 800 V DC
AC frequency range	45 Hz ... 65 Hz
Frequency range DC	0 Hz
Inrush surge current	< 15 A (typical)
Power failure bypass	> 20 ms (at 3 x 400 V AC)
	> 20 ms (at 3 x 480 V AC)
Input fuse	Externally via 3 circuit breakers 6 A, 10 A or 16 A, 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
Nominal output current (I_N)	30 A (up to 60°C)
POWER BOOST (I_{Boost})	35 A
Connection in parallel	Yes, for assembling redundant systems and increasing efficiency
Connection in series	Yes
Residual ripple	< 100 mV _{PP}
Output power	720 W
Typical response time	< 1 s
Peak switching voltages nominal load	< 100 mV _{PP} (20 MHz)
Maximum power dissipation in no-load condition	< 14 W
Power loss nominal load max.	< 62 W

General

Net weight	3.3 kg
Operating voltage display	Green LED
Efficiency	> 92 %
Insulation voltage input/output	2 kV (routine test)
	4 kV (type test)
Protection class	I (with PE connection)
MTTF/ 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 = 5 cm

Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	6 mm ²
Conductor cross section flexible min.	0.2 mm ²

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Connection data, input

Conductor cross section flexible max.	4 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	10
Stripping length	8 mm
Screw thread	M3

Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	16 mm ²
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	10 mm

Signaling

Output name	Active
Output description	$U_{OUT} > 0.9 \times U_N$: High signal
Output voltage	+ 24 V DC (Signal)
Continuous load current	max. 40 mA
Status display	Green LED ($U_{out} < 0.9 \times U_N$: LED flashes)
Output name	floating
Output description	Relay contact, $U_{OUT} > 0.9 \times U_N$: Contact closed
Maximum switching voltage	≤ 30 V AC/DC
Maximum inrush current	≤ 1 A
Continuous load current	≤ 1 A

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Noise emission	EN 55011 (EN 55022)
Noise immunity	EN 61000-6-2:2005
Connection in acc. with standard	CUL
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
	EN 61558-2-17
Standard - Safe isolation	DIN VDE 0100-410

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Classifications

eCl@ss

eCl@ss 4.0	27040702
eCl@ss 4.1	27040702
eCl@ss 5.0	27049002
eCl@ss 5.1	27049002
eCl@ss 6.0	27049002
eCl@ss 7.0	27049002
eCl@ss 8.0	27049002
eCl@ss 9.0	27040701

ETIM

ETIM 2.0	EC001039
ETIM 3.0	EC001039
ETIM 4.0	EC000599
ETIM 5.0	EC002540

UNSPSC

UNSPSC 6.01	30211502
UNSPSC 7.0901	39121004
UNSPSC 11	39121004
UNSPSC 12.01	39121004
UNSPSC 13.2	39121004

Approvals

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UL Recognized / UL Listed / cUL Recognized / cUL Listed / GL / DNV / IECCEB Scheme / SEMI F47 / EAC / EAC / cULus Recognized / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

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UL Recognized 

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Drawings

Block diagram

