

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

package_quantity	1
GTIN	4017918910983

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)
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

Input voltage range	3x 320 V AC ... 575 V AC (for all three phases)
Input voltage range	450 V DC ... 800 V DC
AC frequency range	45 Hz ... 65 Hz
Frequency range DC	0 Hz
Current consumption	approx. 3x 2.1 A (400 V AC)
Current consumption	3x 1.7 A (480 V AC)
Inrush surge current	< 15 A (typical)
Power failure bypass	> 20 ms (at 3 x 400 V AC)
Power failure bypass	> 20 ms (at 3 x 480 V AC)

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Technical data

Input data

Input fuse	Externally via 3 circuit breakers 6 A, 10 A or 16 A, characteristic B
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Output data

Nominal output voltage	24 V DC $\pm 1\%$
Setting range of the output voltage	22.5 V ... 28.5 V
Output current	30 A (up to 60°C)
Output current	35 A (with POWER BOOST)
Connection in parallel	Yes, for assembling redundant systems and increasing efficiency
Residual ripple	< 100 mV _{PP}
Peak switching voltages nominal load	< 100 mV _{PP} (20 MHz)
Maximum power dissipation NO-Load	< 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)
Insulation voltage input/output	4 kV (type test)
Protection class	I (with PE connection)
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
Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
Noise emission	EN 50081-2
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
Standard - Electrical safety	EN 61558-2-17
Standard - Safe isolation	DIN VDE 0100-410
Standard - Safe isolation	DIN VDE 0106-1010

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 stranded min.	0.2 mm ²
Conductor cross section stranded max.	4 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	10
Stripping length	8 mm
Screw thread	M3

Connection data, output

Connection method	Screw connection
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Technical data

Connection data, output

Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	16 mm ²
Conductor cross section stranded min.	0.5 mm ²
Conductor cross section stranded max.	10 mm ²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil 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

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

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

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approvals

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

Approval details

UL Listed

cUL Listed

cULus Listed

UL Recognized

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GOST

GL

DNV

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approvals

IECEE CB Scheme 

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cULus Recognized 



accessories

Assembly adapter

UWA 182/52 - 2938235

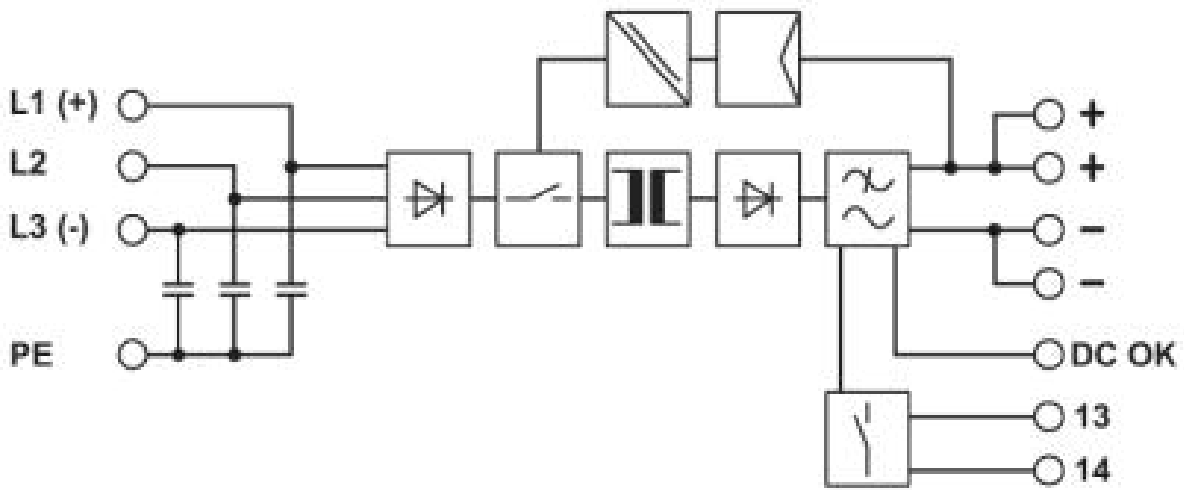


Drawings

Connection diagram

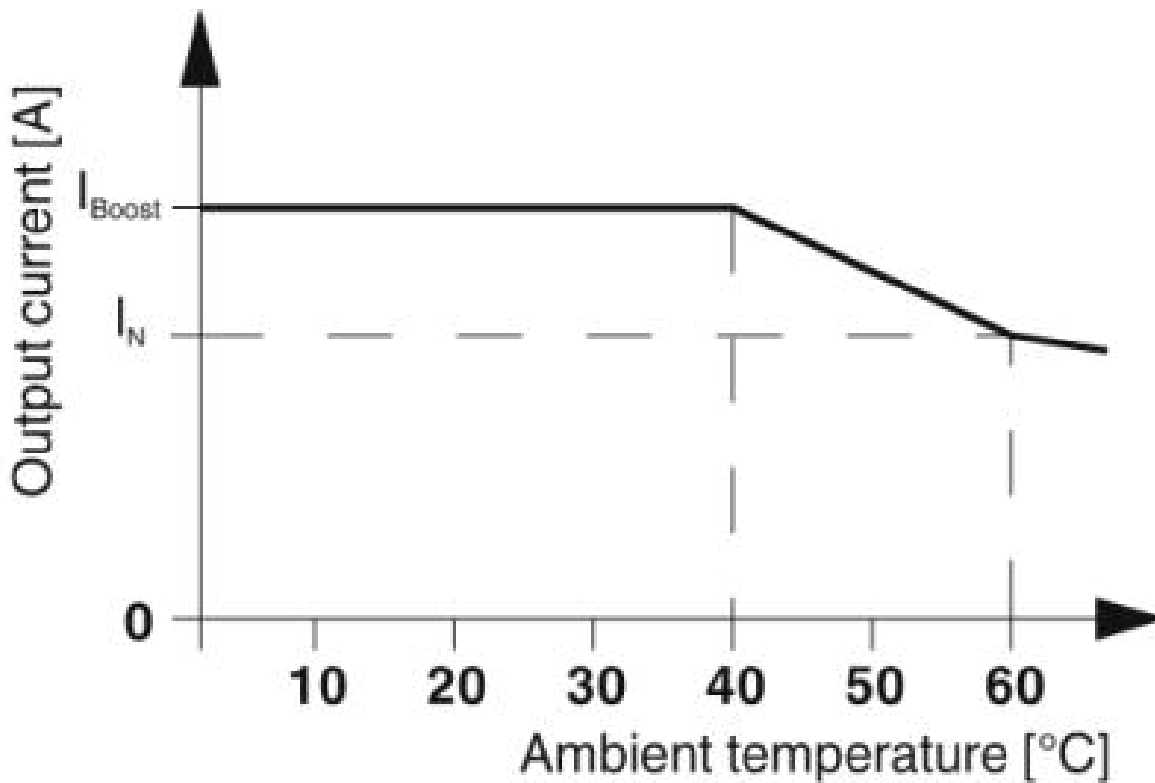
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Block diagram



Diagram

Diagram



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

Dimensioned drawing

Dimensioned drawing

Product drawing

Product drawing

Product drawing

Circuit diagram

Circuit diagram

Circuit diagram

Circuit diagram

Circuit diagram

Schematic diagram

Schematic diagram

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Schematic diagram

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