

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



2938633

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



Commercial data

Item number	2938633
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CMPP33
Product key	CMPP33
GTIN	4017918910983
Weight per piece (including packing)	3,863 g
Weight per piece (excluding packing)	3,300 g
Customs tariff number	85044095
Country of origin	DE

Technical data

Input data

AC operation

Nominal input voltage range	3x 400 V AC ... 500 V AC
Input voltage range	3x 320 V AC ... 575 V AC (for all three phases) 450 V DC ... 800 V DC
Input voltage range AC	3x 320 V AC ... 575 V AC (for all three phases)
Input voltage range DC	450 V DC ... 800 V DC
Voltage type of supply voltage	AC/DC
Inrush current	< 15 A (typical)
AC frequency range	45 Hz ... 65 Hz
Frequency range DC	0 Hz
Mains buffering time	> 20 ms (at 3 x 400 V AC) > 20 ms (at 3 x 480 V AC)
Current consumption	approx. 3x 2.1 A (400 V AC) 3x 1.7 A (480 V AC)
Nominal power consumption	720 W
Typical response time	< 1 s
Input fuse	Externally via 3 circuit breakers 6 A, 10 A or 16 A, characteristic B

Output data

Efficiency	> 92 %
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
Residual ripple	< 100 mV _{PP}
Output power	720 W
Peak switching voltages nominal load	< 100 mV _{PP} (20 MHz)
Maximum no-load power dissipation	< 14 W
Power loss nominal load max.	< 62 W
Connection in parallel	yes, for assembling redundant systems and increasing efficiency
Connection in series	yes

Signal: Active

Output description	$U_{OUT} > 0.9 \times U_N$: High signal
Output voltage	+ 24 V DC (Signal)
Continuous load current	max. 40 mA

Signal: floating

Output description	Relay contact, $U_{OUT} > 0.9 \times U_N$: Contact closed
Maximum switching voltage	≤ 30 V AC/DC

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Maximum inrush current	≤ 1 A
Continuous load current	≤ 1 A

Connection data

Input

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

Output

Connection method	Screw connection
Conductor cross section, rigid min.	0.5 mm ²
Conductor cross section, rigid 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

Operating voltage display	Green LED
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Signal output: Active

Status display	Green LED ($U_{out} < 0.9 \times U_N$: LED flashes)
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Electrical properties

Number of phases	3
Insulation voltage input/output	2 kV (routine test)
	4 kV (type test)

Product properties

Product type	Power supply
Product family	QUINT POWER
MTBF (IEC 61709, SN 29500)	> 500000 h

Insulation characteristics

Protection class	I (with PE connection)
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Dimensions

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Width	240 mm
Height	130 mm
Depth	130 mm

Alternative assembly

Width	122 mm
Height	243 mm
Depth	243 mm

Mounting

Assembly note	alignable: vertical with spacing = 5 cm
Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715

Material specifications

Housing material	Metal
Type of housing	AluNox (AlMg1)

Environmental and real-life conditions

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)

Standards and regulations

Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
	EN 61558-2-17
Standard - Safe isolation	DIN VDE 0100-410

EMC data

Electromagnetic compatibility	Conformance with EMC directive 89/336/EC
EMC requirements for noise immunity	EN 61000-6-2

Noise emission

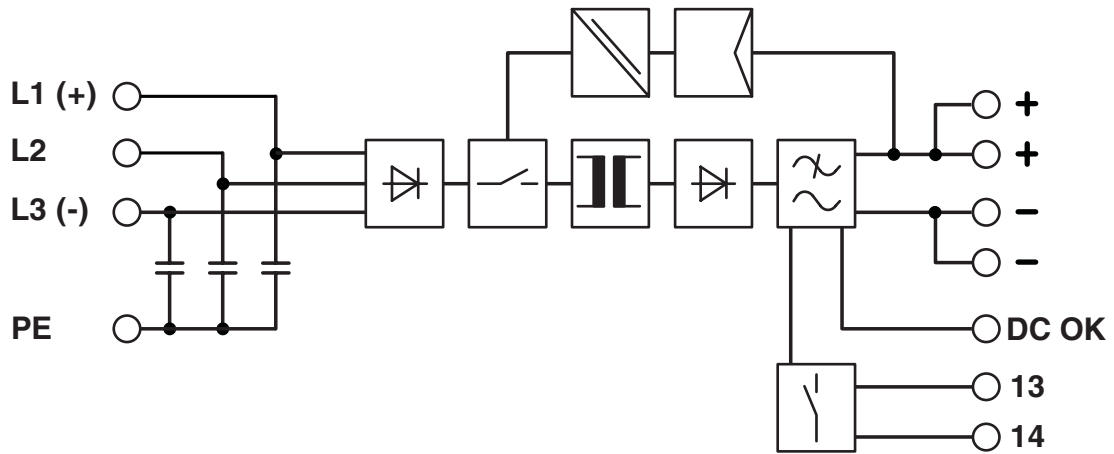
Standards/regulations	EN 55011 (EN 55022)
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Drawings

Block diagram



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Classifications

UNSPSC

UNSPSC 21.0

39121004

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