

# 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
GTIN	
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: 2.5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (at 25 °C, non-condensing)

### Input data

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
AC frequency range	45 Hz ... 65 Hz
Frequency range DC	0 Hz

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## Technical data

### Input data

Current consumption	approx. 3x 2.1 A (400 V AC)
	3x 1.7 A (480 V AC)
Nominal power consumption	720 W
Inrush surge current	< 15 A (typical)
Mains buffering	> 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 <sub>PP</sub>
Output power	720 W
Typical response time	< 1 s
Peak switching voltages nominal load	< 100 mV <sub>PP</sub> (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)
Degree of protection	IP20
MTBF (IEC 61709, SN 29500)	> 500000 h
Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715
Assembly instructions	alignable: vertical with spacing = 5 cm

### Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	6 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	4 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	10

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## Technical data

### Connection data, input

Stripping length	8 mm
Screw thread	M3

### Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	16 mm <sup>2</sup>
Conductor cross section flexible min.	0.5 mm <sup>2</sup>
Conductor cross section flexible max.	10 mm <sup>2</sup>
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	$\leq 30$ V AC/DC
Maximum inrush current	$\leq 1$ A
Continuous load current	$\leq 1$ 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

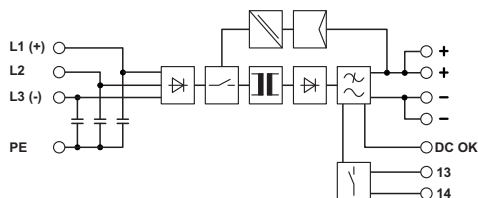
### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Drawings

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

Block diagram



## Approvals

### Approvals

#### Approvals

PRS / DNV / GL / ABS / UL Listed / UL Recognized / cUL Recognized / IECCE CB Scheme / cUL Listed / SEMI F47 / EAC / EAC / cULus Recognized / cULus Listed

#### Ex Approvals

UL Listed / cUL Listed / cULus Listed

### Approval details

PRS		<a href="http://www.prs.pl/">http://www.prs.pl/</a>	TE/2104/880590/16
DNV		<a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>	E-13904
GL		<a href="http://exchange.dnv.com/tari/">http://exchange.dnv.com/tari/</a>	43332-02 HH
ABS		<a href="http://www.eagle.org/eagleExternalPortalWEB/">http://www.eagle.org/eagleExternalPortalWEB/</a>	15-HG1384628-PDA
UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 123528
UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 211944

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cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 211944
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IECEE CB Scheme		<a href="http://www.iecee.org/">http://www.iecee.org/</a>	SI-937
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cUL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 123528
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SEMI F47			SEMI F47
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EAC			EAC-Zulassung
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EAC			RU C- DE.A*30.B.01082
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cULus Recognized			
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cULus Listed			
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