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

2938633

https://www.phoenixcontact.com/gb/products/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 | Information on the country of origin is provided with the delivery. |

# 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 ±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 x $U_N$: High signal |
| Output voltage | + 24 V DC (Signal) |
| Continuous load current | max. 40 mA |

Signal: floating

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

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

## Connection data

### Input

| | |
|---|---|
| Connection method | Screw connection |
| Conductor cross-section, rigid min. | 0.2 mm² |
| Conductor cross-section, rigid max. | 6 mm² |
| Conductor cross-section flexible min. | 0.2 mm² |
| Conductor cross-section flexible max. | 4 mm² |
| 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 mm² |
| Conductor cross-section, rigid max. | 16 mm² |
| Conductor cross-section flexible min. | 0.5 mm² |
| Conductor cross-section flexible max. | 10 mm² |
| Conductor cross-section AWG min. | 20 |
| Conductor cross-section AWG max. | 6 |
| Stripping length | 10 mm |

## Signaling

| | |
|---|---|
| Operating voltage display | Green LED |

### Signal output: Active

| | |
|---|---|
| Status display | Green LED ($U_{out}$ < 0.9 x $U_N$: LED flashes) |

## 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) |

## Dimensions

| | |
|---|---|
| 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

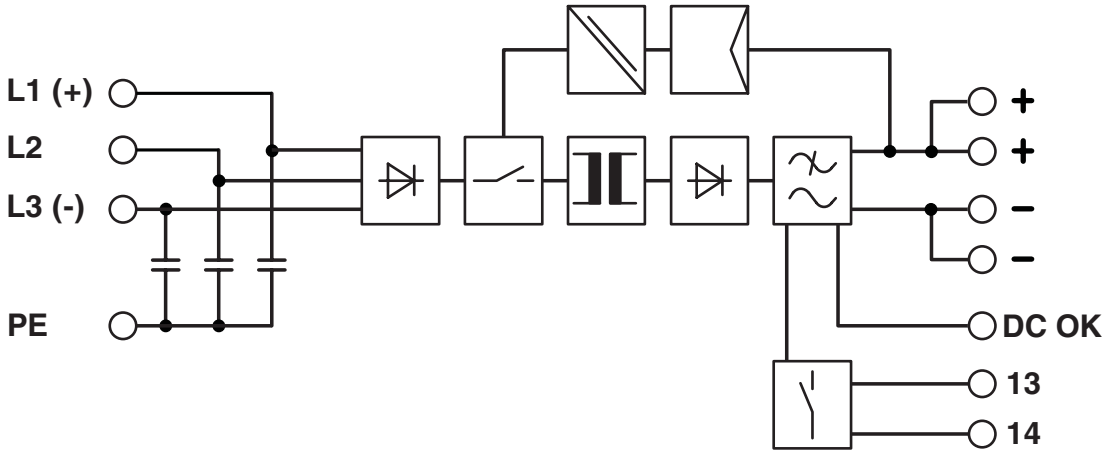
| | |
|---|---|
| Electromagnetic compatibility | Conformance with EMC directive 89/336/EC |
| EMC requirements for noise immunity | EN 61000-6-2 |

Noise emission

| | |
|---|---|
| Standards/regulations | EN 55011 (EN 55022) |

## Drawings

Block diagram



## Classifications

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121004 |

## Environmental product compliance

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-50 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |

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