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QUINT-PS-3X400-500AC/24DC/ 5

Order No.: 2938594

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2938594>

DIN rail power supply unit 24 V DC/5 A, primary switched-mode, 3-phase.

Commercial data

EAN	4017918908362
Pack	1 pcs.
Customs tariff	85044081
Weight/Piece	1.3116 KG
Catalog page information	Page 482 (IF-2007)

Product notes

WEEE/RoHS-compliant since:
04/05/2006



<http://www.download.phoenixcontact.com>
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

Input data

Nominal input voltage	3 x 400 V AC ... 500 V AC
AC input voltage range	3 x 320 V AC ... 575 V AC (for all three phases)
DC input voltage range	450 V DC ... 800 V DC
AC frequency range	45 Hz ... 65 Hz

DC frequency range	0 Hz
Current consumption	Approx. 3x 0.36 A (400 V AC) 3x 0.34 A (480 V AC)
Nominal power consumption	120 W
Inrush surge current	< 15 A (typical)
Power failure bypass	> 50 ms (400 V AC) > 50 ms (480 V AC)
Input fuse	5 A (slow-blow, internal)
Permissible backup fuse	3 x 6 A 10 A 16 A (characteristic B)
Name of protection	Transient surge protection
Protective circuit/component	Varistor

Output data

Nominal output voltage	24 V DC \pm 1%
Setting range of the output voltage	22.5 V ... 28.5 V
Output current	5 A (up to 60 °C) 7.5 A (with POWER BOOST)
Derating	From +60°C 2.5% per Kelvin
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	Yes
Current limitation	Approx. $I_{BOOST} = 7.5$ A (for short circuit)
Control deviation	< 1 % (change in load, static 10% ... 90%) < 2 % (change in load, dynamic 10% ... 90%) < 0.1 % (change in input voltage \pm 10%)
Residual ripple	< 10 mV _{PP} (with nominal values)
Peak switching voltages nominal load	< 140 mV _{PP} (20 MHz)
Maximum power dissipation idling	< 3 W
Power loss nominal load max.	< 17 W

General data

Width	70 mm
Height	130 mm
Depth	125 mm
Weight	0.95 kg

Operating voltage display	LED green
Efficiency	> 88 %
Insulation voltage input/output	4 kV AC (type test) 2 kV AC (routine test)
Degree of protection	IP20
Class of protection	I, with PE connection
MTBF	> 500 000 h in acc. with IEC 61709 (SN 29500)
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, no condensation)
Mounting position	Horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontal 0 cm, vertical 5 cm
Electromagnetic compatibility	Conformance with EMC directive 89/336/EEC
Emitted interference	EN 50081-2
Immunity to interference	EN 61000-6-2:2005
Standard – Electrical equipment of machines	EN 60204
Standard - Safety of transformers	EN 61558-2-17
Standard - Electrical safety	EN 60950/VDE 0805 (SELV) EN 61558-2-17
Shipbuilding approval	German Lloyd, ABS
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard – Safety extra-low voltage	EN 60950 (SELV) EN 60204 (PELV)
Standard - Safe isolation	DIN VDE 0100-410 DIN VDE 0106-1010
Standard – Protection against electric shock	DIN 57100-410
Standard – Protection against shock currents, basic requirements for protective separation in electrical equipment	DIN VDE 0106-101
Standard – Limitation of mains harmonic currents	EN 61000-3-2
Standard – Equipment safety	GS (tested safety)
Certificate	CB Scheme
UL approvals	UL/C-UL listed UL 508 UL/C-UL Recognized UL 60950 UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D

Surge voltage category	III
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Connection data, input

Type of connection	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	8 mm
Screw thread	M3

Connection data, output

Type of connection	Screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Stripping length	8 mm

Signaling

Output name	DC OK active
Output description	$U_{OUT} > 0.9 \times U_N$: High signal
Maximum switching voltage	≤ 24 V
Output voltage	+ 24 V DC (signal)
Maximum inrush current	≤ 40 mA
Continuous load current	≤ 40 mA
Status display	"DC OK" LED green
Note on status display	$U_{OUT} < 0.9 \times U_N$: LED flashing
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24

Conductor cross section AWG/kcmil max	12
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm
Screw thread	M3
Output name	DC OK 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
Status display	"DC OK" LED green

Certificates / Approvals



Certification ABS, CB, CUL, CUL Listed, DNV, GL, GOST, UL, UL Listed

Certification Ex: CUL-EX LIS, UL-EX LIS

Accessories

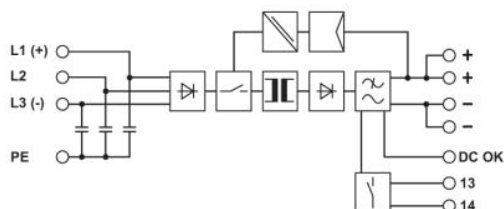
Item	Designation	Description
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General

2938196	QUINT-PS-ADAPTERS7/1	Assembly adapter for QUINT-PS... power supply on S7-300 rail
2938235	UWA 182/52	Universal wall adapter

Diagrams/Drawings

Block diagram



Approbationslogos (EX-Bereich)



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