

QUINT-PS-3X400-500AC/48DC/20

Order No.: 2938222

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2938222>Primary switched-mode power supply unit, 3-phase, output: 48 V DC /
20 A**Commercial data**

EAN	4017918927066
Pack	1 Pcs.
Customs tariff	85044081
Weight/Piece	3.8904 KG
Catalog page information	Page 485 (IF-2007)

Product notesWEEE/RoHS-compliant since:
06/28/2006

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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 (for all three phases)
AC frequency range	45 Hz ... 65 Hz
DC frequency range	0 Hz
Current consumption	Approx. 3x 2.3 A (400 V AC) 1.9 A (480 V AC)

Nominal power consumption	960 W
Inrush surge current	< 15 A
Power failure bypass	> 20 ms (400 V AC)
	> 30 ms (480 V AC)
Recommended 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	48 V DC \pm 1%
Setting range of the output voltage	30 V DC ... 56 V DC
Output current	20 A (nominal value, up to 60°C)
	22 A (with POWER BOOST)
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	Yes
Residual ripple	< 20 mVPP
Peak switching voltages nominal load	< 140 mVPP (20 MHz)
Maximum power dissipation idling	20 W
Power loss nominal load max.	90 W

General data

Width	240 mm
Height	130 mm
Depth	130 mm
Weight	3.5 kg
Operating voltage display	LED green
Efficiency	> 90 %
Insulation voltage input/output	3 kV (type test)
	1.5 kV (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
Standard – Safety transformers for switched-mode power supply units	EN 61558-2-17
Standard - Electrical safety	EN 60950/VDE 0805 (SELV) EN 61558-2-17
Standard – Shipbuilding	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 - Safe isolation	DIN VDE 0100-410 DIN VDE 0106-1010
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

Connection data, input

Type of connection	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	M 3

Connection data, output

Type of connection	Screw connection
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	DC OK active
Output description	$U_{OUT} > 0.9 \times U_N$: High signal
Maximum switching voltage	≤ 24 V
Output voltage	+ 24 V DC
Maximum inrush current	≤ 20 mA
Continuous load current	≤ 20 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.	0.5 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
Screw thread	M 4
Output name	DC OK floating
Output description	Relay contact, $U_{OUT} > 0.9 \times U_N$: Contact closed
Maximum switching voltage	≤ 60 V AC/DC
Maximum inrush current	Max. 0.5 A
Continuous load current	≤ 0.5 A
Status display	"DC OK" LED green
Note on status display	$U_{OUT} < 0.9 \times U_N$: LED flashing

Certificates / Approvals

Approval logo



requested approbations

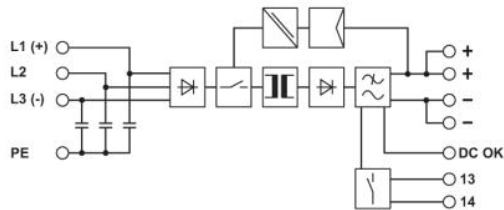
Certification	CB, CUL, CUL Listed, UL, UL Listed
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Accessories

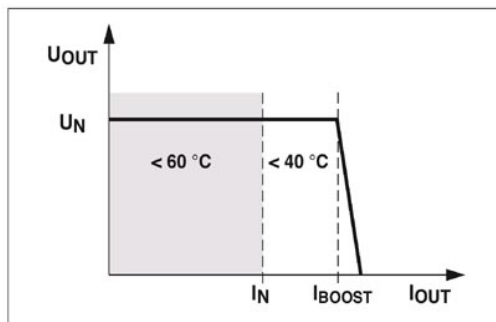
Item	Designation	Description
General		
2938235	UWA 182/52	Universal wall adapter

Drawings

Block diagram



Diagram



POWER BOOST

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