Extract from the online catalog

QUINT-PS-3X400-500AC/48DC/10

Order No.: 2938219

http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2938219

Primary switched-mode power supply unit, 3-phase, output: 48 V DC / 10 A

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.

Commercial data	
EAN	4017918927691
Pack	1 Pcs.
Customs tariff	85044081
Weight/Piece	2.34 KG
Catalog page information	Page 485 (IF-2007)

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 1.2 A (400 V AC)
	1 A (480 V AC)
Nominal power consumption	480 W
Inrush surge current	< 10 A

Power failure bypass	> 25 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 ±1%
Setting range of the output voltage	30 V DC ... 56 V DC
Output current	10 A (nominal value, up to 60°C)
	13 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	10 W
Power loss nominal load max.	45 W

General data

Width	160 mm
Height	130 mm
Depth	130 mm
Weight	2.3 kg
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.	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	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 x 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	UOUT < 0.9 x UN: 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 x 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	UOUT < 0.9 x UN: LED flashing

Certificates / Approvals

requested approbations

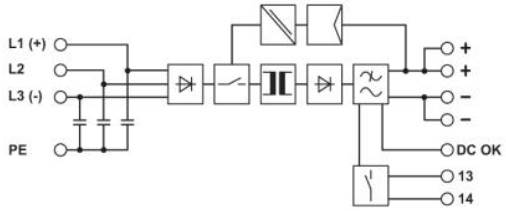
Certification	CB, CUL, CUL Listed, UL, UL Listed

Accessories

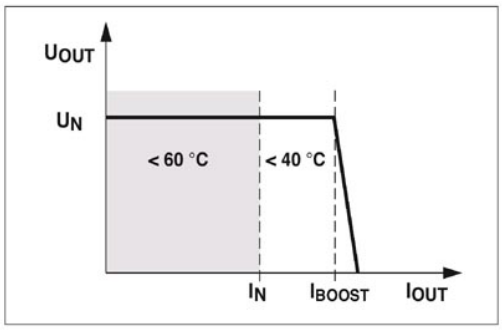
Item	Designation	Description
General		
2938235	UWA 182/52	Universal wall adapter

Drawings

Block diagram



Diagram



POWER BOOST

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