

QUINT-PS-3X400AC/24DC/20 - Power supply



2939467

<https://www.phoenixcontact.com/us/products/2939467>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Power supply unit, primary switched-mode, input 3 x 400 V AC, output 24 V DC/20 A

Commercial data

Item number	2939467
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CM11
Product key	CMPP33
GTIN	4017918160265
Weight per piece (including packing)	2,590 g
Weight per piece (excluding packing)	2,590 g
Customs tariff number	85044094
Country of origin	DE

Technical data

Input data

Input voltage	3x 400 V AC
Input voltage range	325 V AC ... 460 V AC
Input voltage range AC	325 V AC ... 460 V AC
Inrush current	< 19 A (at 25 °C)
AC frequency range	47 Hz ... 63 Hz
Mains buffering time	> 20 ms
Current consumption	approx. 1.8 A
Input fuse	6 A (externally via circuit breaker, characteristic B)

Output data

Efficiency	> 90 %
Nominal output voltage	24 V DC \pm 1 %
Setting range of the output voltage (U_{Set})	22.5 V ... 28.5 V (> 24 V DC, constant capacity restricted)
Nominal output current (I_N)	20 A
Residual ripple	150 mV _{PP}
Peak switching voltages idling	100 mV _{PP} (1.2 MHz bandwidth)
Maximum no-load power dissipation	< 7 W
Power loss nominal load max.	< 92 W
Connection in parallel	yes, for assembling redundant systems and increasing efficiency

Connection data

Input

Connection method	Pluggable screw connection
Conductor cross-section, rigid min.	0.2 mm ²
Conductor cross-section, rigid max.	2.5 mm ²
Conductor cross-section flexible min.	0.2 mm ²
Conductor cross-section flexible max.	2.5 mm ²
Conductor cross-section AWG min.	24
Conductor cross-section AWG max.	14
Stripping length	8 mm
Screw thread	M2,5

Output

Connection method	Pluggable screw connection
Conductor cross-section, rigid min.	0.2 mm ²
Conductor cross-section, rigid max.	4 mm ²
Conductor cross-section flexible min.	0.2 mm ²
Conductor cross-section flexible max.	4 mm ²
Conductor cross-section AWG min.	24
Conductor cross-section AWG max.	10

QUINT-PS-3X400AC/24DC/20 - Power supply



2939467

<https://www.phoenixcontact.com/us/products/2939467>

Stripping length	8 mm
Screw thread	M2,5

Signaling

Operating voltage display	LED
---------------------------	-----

Electrical properties

Insulation voltage input/output	1.8 kV (routine test)
	3 kV (type test)

Product properties

Product type	Power supply
MTBF (IEC 61709, SN 29500)	> 500000 h

Dimensions

Width	240 mm
Height	115 mm
Depth	125 mm

Mounting

Assembly note	alignable: vertical with spacing = 10 cm, horizontal with zero spacing
Mounting position	on horizontal DIN rail NS 35 in acc. with EN 60715

Material specifications

Housing material	Metal
Type of housing	High-grade steel plate, enclosed
Side element version	ABS V0, color: green

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	0 °C ... 70 °C (UL up to 50°C)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (at 25 °C, non-condensing)

Standards and regulations

Standard - Electrical safety	EN 60950/VDE 0805-1
	DIN EN 50178/VDE 0160
	UL 508C
	CSA C22.2-14
	UL 1950
	CSA C22.2-950
	DIN VDE 0100-410
DIN VDE 0106-101	

QUINT-PS-3X400AC/24DC/20 - Power supply



2939467

<https://www.phoenixcontact.com/us/products/2939467>

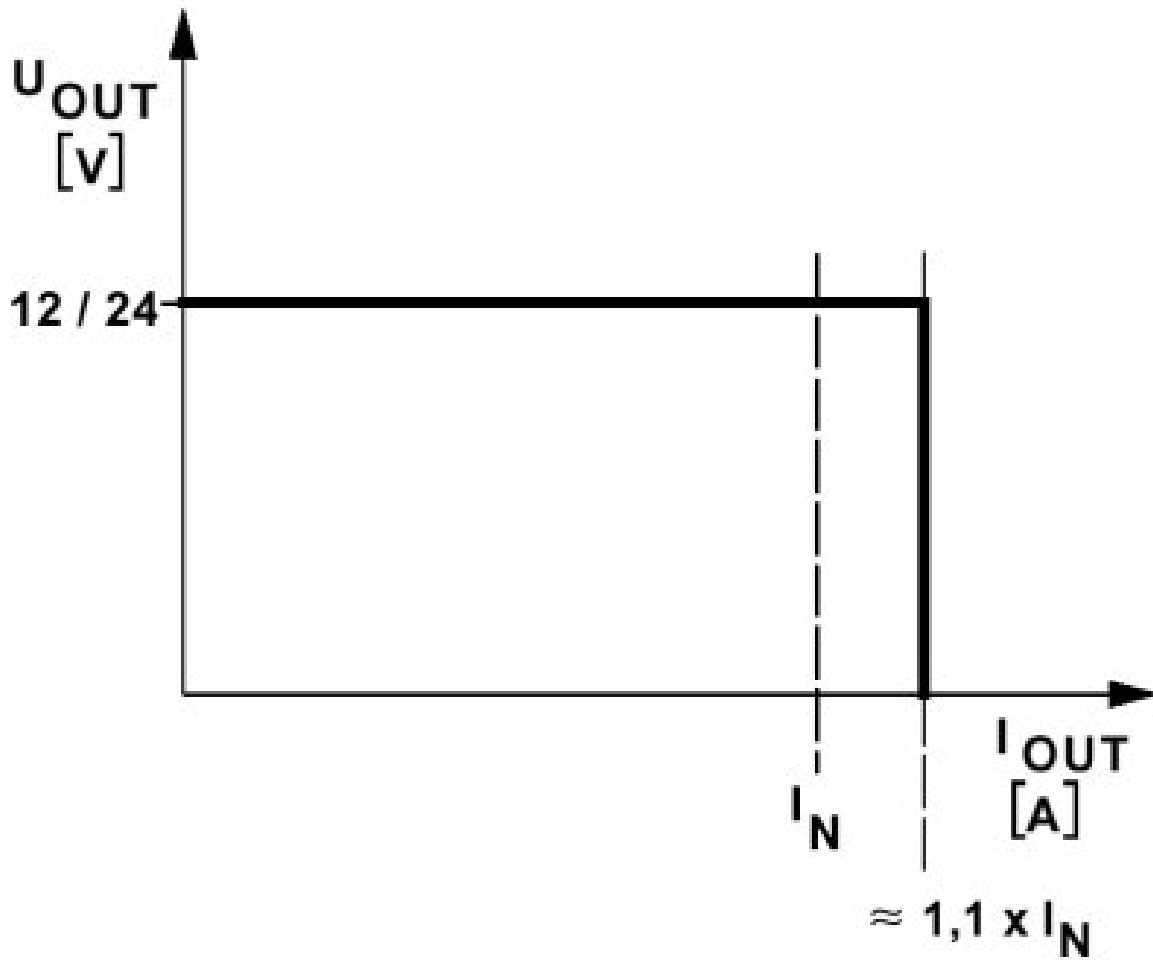
EMC data

Electromagnetic compatibility

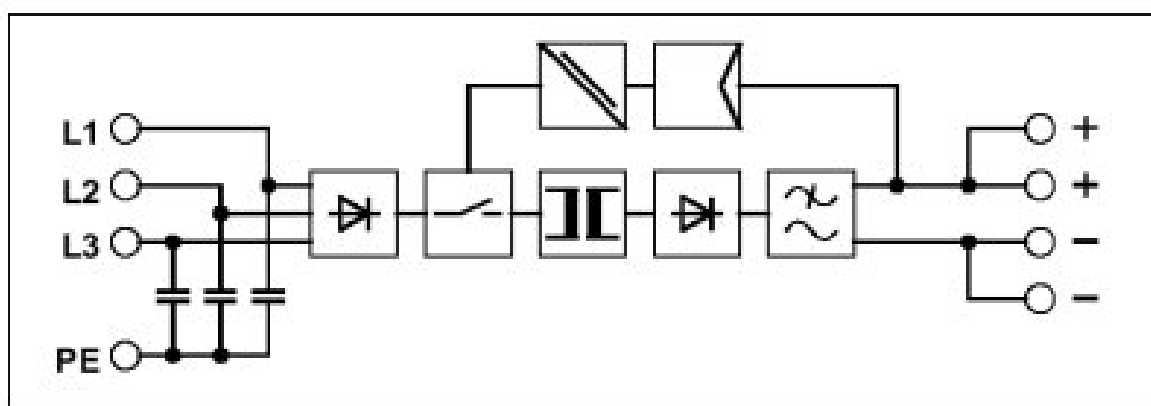
Conformance with EMC directive 89/336/EC

Drawings

Diagram



Circuit diagram



QUINT-PS-3X400AC/24DC/20 - Power supply



2939467

<https://www.phoenixcontact.com/us/products/2939467>

Environmental product compliance

EU REACH SVHC

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

Phoenix Contact 2026 © - all rights reserved

<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com