

# QUINT-PS-120AC/24DC/ 1 - Power supply



2939247

<https://www.phoenixcontact.com/us/products/2939247>

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Power supply unit, primary switched-mode, input 120 V AC, output 24 V DC/1 A

The figure shows the version QUINT-PS-230AC/24DC/1

## Commercial data

Item number	2939247
Packing unit	1 pc
Sales key	NULL
Product key	CMPP13
GTIN	4017918155322
Weight per piece (including packing)	598.8 g
Weight per piece (excluding packing)	598.8 g
Customs tariff number	85044094
Country of origin	DE

## Technical data

### Input data

#### AC operation

Input voltage	120 V AC
Input voltage range	93 V AC ... 132 V AC
Input voltage range AC	93 V AC ... 132 V AC
Inrush current	< 18 A (at 25 °C)
AC frequency range	47 Hz ... 63 Hz
Mains buffering time	> 20 ms
Current consumption	approx. 0.35 A
Input fuse	1 A (slow-blow, soldered internally)

### Output data

Efficiency	> 84 %
Nominal output voltage	24 V DC $\pm$ 1.5 % (typical)
Setting range of the output voltage ( $U_{Set}$ )	fixed voltage
Nominal output current ( $I_N$ )	1 A
Residual ripple	150 mV <sub>PP</sub>
Peak switching voltages idling	100 mV <sub>PP</sub> (1.2 MHz bandwidth)
Maximum no-load power dissipation	< 2 W
Power loss nominal load max.	< 5 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 <sup>2</sup>
Conductor cross-section, rigid max.	2.5 mm <sup>2</sup>
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section flexible max.	2.5 mm <sup>2</sup>
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 <sup>2</sup>
Conductor cross-section, rigid max.	2.5 mm <sup>2</sup>
Conductor cross-section flexible min.	0.2 mm <sup>2</sup>
Conductor cross-section flexible max.	2.5 mm <sup>2</sup>
Conductor cross-section AWG min.	24

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Conductor cross-section AWG max.	14
Stripping length	8 mm
Screw thread	M2,5

## Signaling

Operating voltage display	LED
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## 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	107 mm
Height	78 mm
Depth	87 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)	-20 °C ... 70 °C (UL up to 50°C)
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (operation)	up to 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

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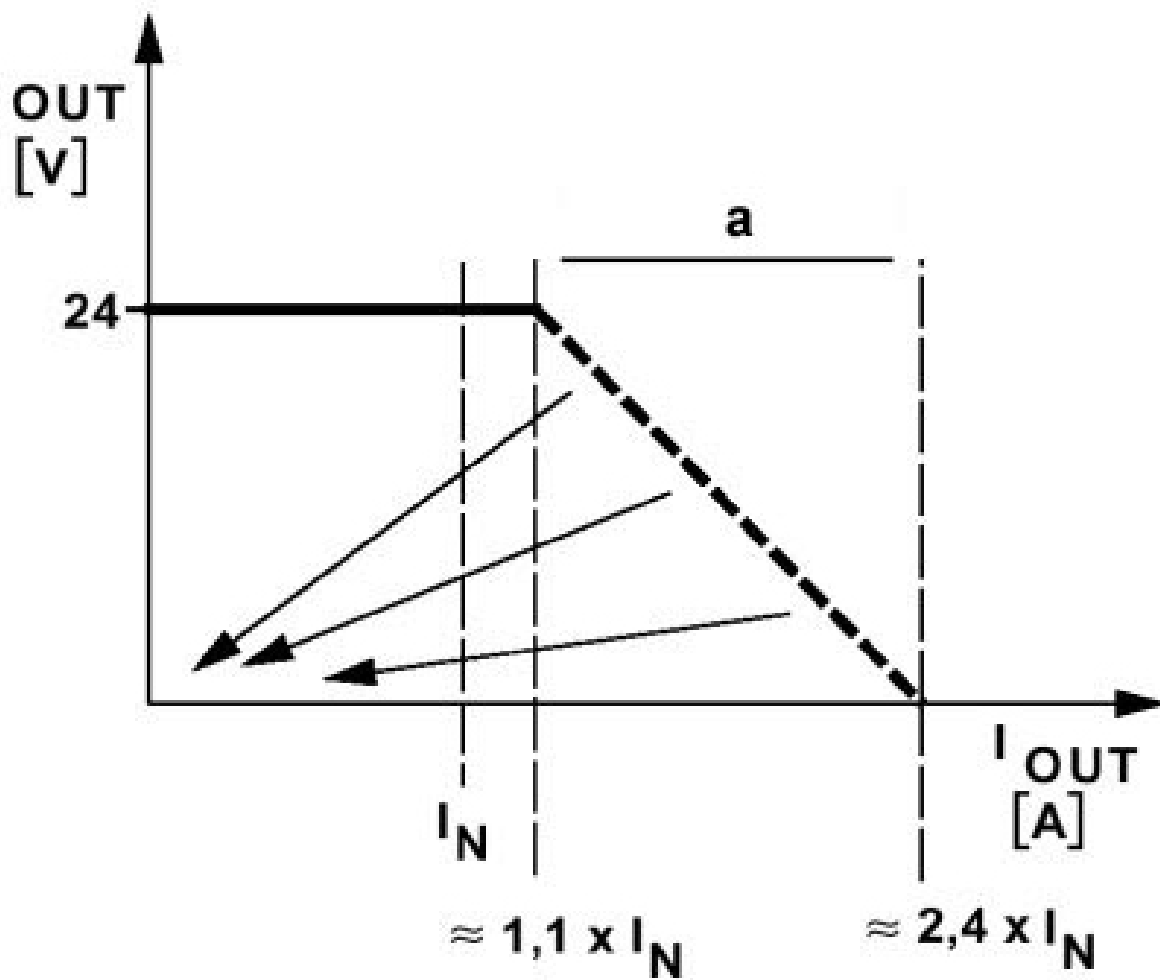
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DIN VDE 0106-101

Drawings

Diagram



a = overload range

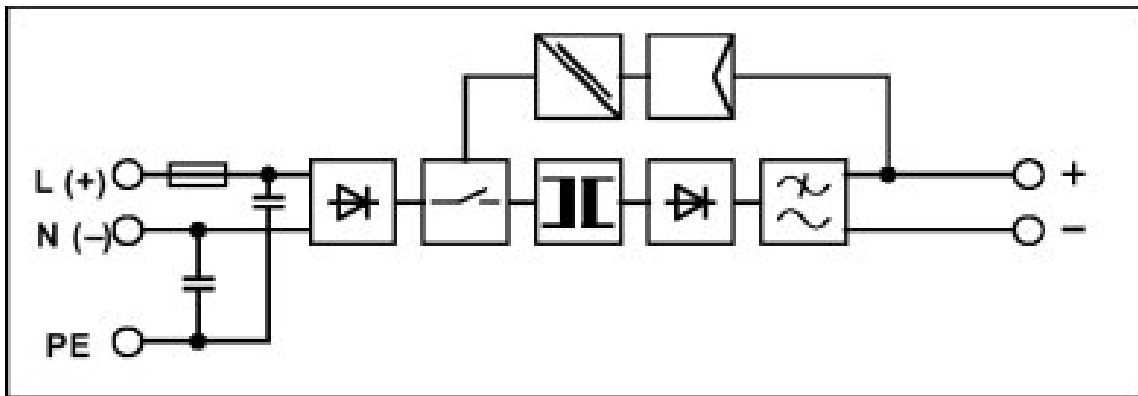
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Circuit diagram



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## Environmental product compliance

EU REACH SVHC

REACH candidate substance (CAS No.)	
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	No substance above 0.1 wt%
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Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)