

QUINT-PS-120AC/24DC/2,5

This product has been replaced by a newer version.

Order No.: 2939056



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Power supply unit, primary switched-mode, input 120 V AC, output 24 V DC/2.5 A

Commercial data

EAN	4017918148034
Pack	1 Pcs.
Customs tariff	85044081
Weight/Piece	0.9054 KG

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Technical data

Input data

Nominal input voltage	120 V AC
AC input voltage range	90 V AC ... 132 V AC
AC frequency range	47 Hz ... 63 Hz
Current consumption	Approx. 0.95 A
Inrush surge current	< 12 A (at 25°C)
Power failure bypass	> 20 ms
Input fuse	2.5 A (slow-blow, soldered internally)

Output data

Nominal output voltage	24 V DC $\pm 1,5$ % (typical)
Setting range of the output voltage	(fixed voltage)
Output current	2.5 A

Connection in parallel	Yes, for assembling redundant systems and increasing efficiency
Residual ripple	150 mV _{PP}
Peak switching voltages idling	100 mV _{PP} (1.2 MHz bandwidth)
Maximum power dissipation idling	3 W
Power loss nominal load max.	12 W

General data

Width	141 mm
Height	78 mm
Depth	87 mm
Weight	0.8 kg
Operating voltage display	LED
Efficiency	> 83 %
Insulation voltage input/output	1.8 kV (routine test) 3 kV (type test)
Degree of protection	IP20
Class of protection	I, with PE connection
MTBF	> 500000 h in acc. with SN 29500
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, no condensation)
Mounting position	On horizontal DIN rail NS 35 in acc. with EN 60715
Assembly instructions	Can be aligned: Vertical with spacing = 10 cm, horizontal with zero spacing
Standard - Electrical safety	EN 60950/VDE 0805 DIN EN 50178/VDE 0160:1998-04 UL 508C CSA C22.2-14 UL 1950 CSA C22.2-950 DIN VDE 0100-410 DIN VDE 0106-101
Standard - Safe isolation	DIN VDE 0100-410 DIN VDE 0106-101

Connection data, input

Type of connection	COMBICON screw/plug connection
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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	14
Stripping length	8 mm
Screw thread	M 2,5

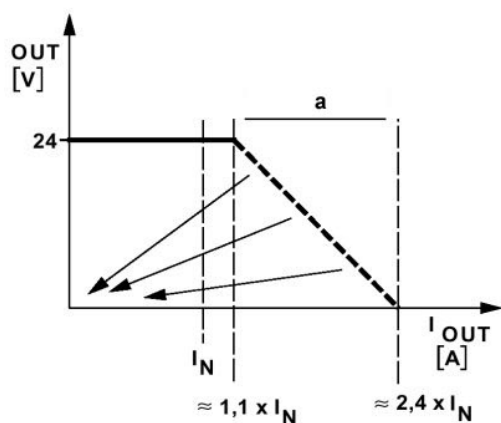
Connection data, output

Type of connection	COMBICON screw/plug 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	14
Stripping length	8 mm

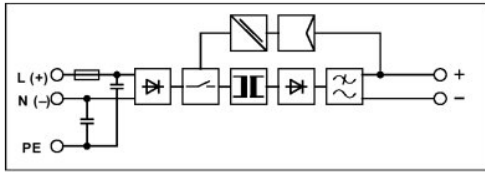
Drawings

Diagram

a = overload range



Circuit diagram



Address

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstr. 8
32825 Blomberg, Germany
Phone +49 5235 3 00
Fax +49 5235 3 41200
<http://www.phoenixcontact.de>



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