

QUINT-PS-120AC/24DC/10

This product has been replaced by a newer version.

Order No.: 2939072



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2939072>

Power supply unit, primary switched-mode, input 120 V AC, output 24 V DC/10 A

Commercial data

EAN	4017918155285
Pack	1 Pcs.
Customs tariff	85044081
Weight/Piece	1.751 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. 3 A
Inrush surge current	< 24 A (at 25°C)
Power failure bypass	> 20 ms
Input fuse	6.3 A (slow-blow, soldered internally)

Output data

Nominal output voltage	24 V DC $\pm 1\%$ (typical)
Setting range of the output voltage	11.5 V DC ... 18 V DC (constant)

Output current	10 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	5 W
Power loss nominal load max.	53 W

General data

Width	180 mm
Height	115 mm
Depth	125 mm
Weight	1.4 kg
Operating voltage display	LED
Efficiency	> 84 %
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)	0 °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

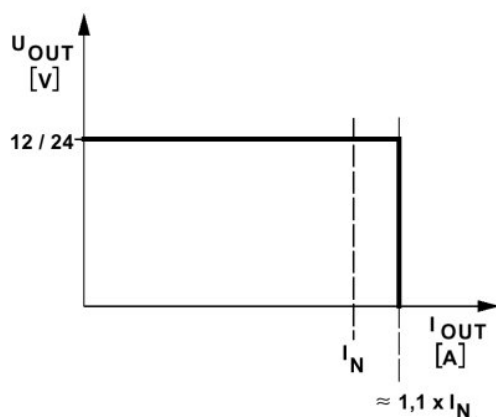
Type of connection	COMBICON screw/plug connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm
Screw thread	M 2,5

Connection data, output

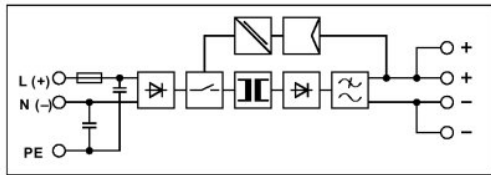
Type of connection	COMBICON screw/plug connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	4 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	4 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	10
Stripping length	8 mm

Drawings

Diagram



Circuit diagram



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