


TRIO-PS/ 1AC/24DC/ 5

Order No.: 2866310

<http://eshop.phoenixcontact.co.uk/phoenix/treeViewClick.do?UID=2866310>DIN rail power supply unit, primary-switched mode, 1-phase, output:
24 V DC / 5 A**Commercial data**

EAN	 4 046356 046640
Pack	1
Customs tariff	85044081
Country of Origin	CN
Catalog page information	Page 591 (IF-2011)

Product notesWEEE/RoHS-compliant since:
10/07/2006

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 at <http://www.download.phoenixcontact.com>. The General Terms and Conditions of Use apply to Internet downloads.

Product description

TRIO POWER is the DIN-rail-mountable power supply unit with basic functions. With an output voltage of 5 V DC, 12 V DC, 24 V DC, and 48 V DC and 1- and 3-phase versions with 60 W or 960 W, it is particularly suited for use in series production in mechanical engineering. The wide-range input and international certification package allow worldwide implementation.

The high MTBF of 500,000 h stands for high supply reliability. The devices can be connected in parallel to increase the capacity and redundancy.

The clear LED signaling and the device connection with double terminal block for plus and minus for fast potential distribution are further advantages of this device series. A third minus terminal block simplifies the grounding on the

secondary side. All power supply units are idle-proof and short-circuit-proof and provide a regulated and adjustable output voltage.

Technical data

Input data

Nominal input voltage	100 V AC ... 240 V AC
AC input voltage range	85 V AC ... 264 V AC (derating < 90 V AC: 2.5% per Kelvin)
Short-term input voltage	300 V AC
AC frequency range	45 Hz ... 65 Hz
Current consumption	1.65 A (120 V AC) 0.9 A (230 V AC)
Inrush surge current	< 15 A
Power failure bypass	> 20 ms (120 V AC) > 110 ms (230 V AC)
Input fuse	3.15 A (slow-blow, internal)
Permissible backup fuse	B6 B10 B16
Power factor (cos phi)	0.72
Type of protection	Transient surge protection
Protective circuit/component	Varistor

Output data

Nominal output voltage	24 V DC \pm 1%
Setting range of the output voltage	22.5 V DC ... 29.5 V DC (> 24 V constant capacity)
Output current	5 A (-25°C ... 55°C)
Derating	55 °C ... 70 °C (2.5%/K)
Connection in parallel	Yes, for redundancy and increased capacity
Connection in series	Yes
Max. capacitive load	Unlimited
Current limitation	Approx. 10 A (for short-circuit)
Control deviation	< 1 % (change in load, static 10% ... 90%) < 2 % (change in load, dynamic 10% ... 90%) < 0.1 % (change in input voltage \pm 10%)
Residual ripple	< 20 mV _{PP}
Peak switching voltages nominal load	< 30 mV _{PP}
Maximum power dissipation idling	1.1 W