

Power supply unit - TRIO-PS/1AC/24DC/10 - 2866323

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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Primary-switched TRIO POWER power supply for DIN rail mounting, input: 1-phase, output: 24 V DC/10 A

Product Description

TRIO POWER power supplies with standard functionality
 TRIO POWER is particularly suited to standard machine production, thanks to 1- and 3-phase versions up to 960 W. The wide-range input and the international approval package enable worldwide use.
 The robust metal housing, the high electric strength, and the wide temperature range ensure a high level of power supply reliability.

Why buy this product

- Use the third negative terminal block as a grounding terminal block and minimize installation costs
- Rugged design with metal housing and wide temperature range from -25 to +70°C
- Maximum operational reliability thanks to high MTBF (mean time between failures) of more than 500,000 hours and high dielectric strength of up to 300 V AC
- Compensation of voltage drops by means of output voltage that can be adjusted on the front



Key Commercial Data

Packing unit	1 pc
GTIN	
Weight per Piece (excluding packing)	1400.0 g
Custom tariff number	85044030
Country of origin	China

Technical data

Dimensions

Width	60 mm
Height	130 mm
Depth	152.5 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 55° C derating : 2.5%/K)

Power supply unit - TRIO-PS/1AC/24DC/10 - 2866323

Technical data

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Noise immunity	EN 61000-6-2:2005

Input data

Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range	85 V AC ... 264 V AC (Derating < 90 V AC: 2,5 % / V)
Dielectric strength maximum	300 V AC
AC frequency range	45 Hz ... 65 Hz
Discharge current to PE	< 3.5 mA
Inrush surge current	< 15 A
Power failure bypass	> 24 ms (120 V AC) > 24 ms (230 V AC)
Input fuse	6.3 A (slow-blow, internal)
Choice of suitable circuit breakers	10 A ... 16 A (Characteristics B, C, D, K)
Power factor (cos phi)	0.99
Type of protection	Transient surge protection
Protective circuit/component	Varistor

Output data

Nominal output voltage	24 V DC ±1 %
Setting range of the output voltage (U _{Set})	22.5 V DC ... 29.5 V DC (> 24 V DC, constant capacity restricted)
Nennausgangsstrom (I _N)	10 A (U _{OUT} = 24 V DC)
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
Active current limitation	Approx. 14 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 ±10 %)
Residual ripple	< 10 mV _{PP}
Output power	240 W
Typical response time	< 1 s
Peak switching voltages nominal load	< 50 mV _{PP}
Maximum power dissipation in no-load condition	6.7 W
Power loss nominal load max.	30 W

General

Net weight	1.4 kg
Operating voltage display	Green LED
Efficiency	89 % (for 230 V AC and nominal values)