

Power supply unit - TRIO-PS/3AC/24DC/40 - 2866404

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Primary-switched TRIO POWER power supply for DIN rail mounting, input: 3-phase, output: 24 V DC/40 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 STK
GTIN	 4 046356 046688
GTIN	4046356046688
Weight per Piece (excluding packing)	2,900.000 g
Custom tariff number	85044030
Country of origin	China

Technical data

Dimensions

Width	139 mm
Height	130 mm
Depth	190 mm

Ambient conditions

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Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 55° C derating : 2.5%/K)
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	3x 400 V AC ... 500 V AC
Input voltage range	3x 320 V AC ... 575 V AC
	2x 360 V AC ... 575 V AC (for 2-phase operation)
AC frequency range	45 Hz ... 65 Hz
Discharge current to PE	< 3.5 mA
Current consumption	3x 2 A (400 V AC)
	3x 1.6 A (480 V AC)
Inrush surge current	< 20 A
Power failure bypass	> 16 ms (400 V AC)
	> 20 ms (480 V AC)
Choice of suitable circuit breakers	6 A ... 16 A (Characteristics B, C, D, K)
Power factor (cos phi)	0.76
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 (U_{Set})	22.5 V DC ... 29.5 V DC (> 24 V DC, constant capacity restricted)
Nominal output current (I_N)	40 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
Active current limitation	Approx. 48 A
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}
Output power	960 W
Typical response time	< 1 s
Peak switching voltages nominal load	< 40 mV _{PP}
Maximum power dissipation in no-load condition	16 W
Power loss nominal load max.	91 W

General