

Power supply unit - TRIO-PS/1AC/48DC/ 5 - 2866491

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Primary-switched TRIO POWER power supply for DIN rail mounting, input: 1-phase, output: 48 V DC/5 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 288378 |
| GTIN | 4046356288378 |
| Weight per Piece (excluding packing) | 1,400.000 g |
| Custom tariff number | 85044030 |
| Country of origin | China |

Technical data

Dimensions

| | |
|--------|----------|
| Width | 60 mm |
| Height | 130 mm |
| Depth | 152.5 mm |

Ambient conditions

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Technical data

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 | 100 V AC ... 240 V AC |
| Input voltage range | 85 V AC ... 264 V AC (derating < 90 V AC: 2.5 % per Kelvin) |
| Dielectric strength maximum | 300 V AC |
| AC frequency range | 45 Hz ... 65 Hz |
| Discharge current to PE | < 3.5 mA |
| Current consumption | 2.5 A (120 V AC) |
| | 1.3 A (230 V AC) |
| Nominal power consumption | > 48 V DC, constant capacity restricted |
| Inrush surge current | < 15 A |
| Power failure bypass | > 15 ms (120 V AC) |
| | > 16 ms (230 V AC) |
| Choice of suitable circuit breakers | 10 A ... 16 A (Characteristics B, C, D, K) |
| Type of protection | Transient surge protection |
| Protective circuit/component | Varistor |

Output data

| | |
|---|---|
| Nominal output voltage | 48 V DC \pm 1 % |
| Setting range of the output voltage (U_{Set}) | 30 V DC ... 56 V DC (> 48 V DC, constant capacity restricted) |
| Nominal output current (I_N) | 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 |
| Active current limitation | Approx 5.7 A (in the event of a 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 | < 50 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 | 7 W |
| Power loss nominal load max. | 28 W |

General