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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.

Product Features

- ☑ 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



Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	1560.0 GRM
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



Technical data

Ambient conditions

Ambient temperature (operation)	-25 °C 70 °C (> 55° C derating)
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)
Short-term input voltage	300 V AC
AC frequency range	45 Hz 65 Hz
Current consumption	3 A (100 V AC)
	1.5 A (240 V AC)
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 fuses	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	22.5 V DC 29.5 V DC (> 24 V constant capacity)
Output current	10 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. 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}
Peak switching voltages nominal load	< 50 mV _{PP}
Maximum power dissipation NO-Load	6.7 W
Power loss nominal load max.	30 W

General



Technical data

General

Net weight	1.4 kg
Operating voltage display	Green LED
Efficiency	> 89 % (for 230 V AC and nominal values)
Insulation voltage input/output	4 kV AC (type test)
	2 kV AC (routine test)
Protection class	I (with PE connection)
MTBF (IEC 61709, SN 29500)	> 981000 h
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontally 0 mm, vertically 50 mm
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Low Voltage Directive	Conformance with LV directive 2006/95/EC
Standard – Electrical equipment of machines	EN 60204
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard – Safety extra-low voltage	EN 60950-1 (SELV)
	EN 60204 (PELV)
Standard - Safe isolation	DIN VDE 0100-410
	DIN VDE 0106-1010
Standard – Protection against electric shock	DIN 57100-410
Standard – Protection against shock currents, basic requirements for protective separation in electrical equipment	DIN VDE 0106-101
Standard – Limitation of mains harmonic currents	EN 61000-3-2
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950
Surge voltage category	III

Connection data, input

Connection method	Screw 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	9 mm
Screw thread	M2,5

Connection data, output



Technical data

Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	2.5 mm²
Conductor cross section stranded min.	0.2 mm²
Conductor cross section stranded max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Stripping length	9 mm

Signaling

Status display	"DC OK" LED green
Note on status display	U_{OUT} < 0.9 x U_{N} : LED flashing

Classifications

eCl@ss

eCl@ss 4.0	27040702
eCl@ss 4.1	27040702
eCl@ss 5.0	27049002
eCl@ss 5.1	27049002
eCl@ss 6.0	27049002
eCl@ss 7.0	27049002
eCl@ss 8.0	27049002

ETIM

ETIM 2.0	EC001039
ETIM 3.0	EC001039
ETIM 4.0	EC000599
ETIM 5.0	EC002540

UNSPSC

UNSPSC 6.01	30211502
UNSPSC 7.0901	39121004
UNSPSC 11	39121004
UNSPSC 12.01	39121004
UNSPSC 13.2	39121004



Approvals
Approvals
Approvals
UL Recognized / UL Listed / cUL Recognized / cUL Listed / cUL Listed / cULus Recognized / cULus Listed / cULus Listed / cULus Listed / null / null / null
Ex Approvals
Approvals submitted
Approval details
UL Recognized 3
UL Listed (I)
cUL Recognized •
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cUL Listed **
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Approvals

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400 x 250 x
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Accessories
Accessories
Assembly adapter
Assembly adapters - UWA 182/52 - 2938235



Universal wall adapter

Mounting rail adapter



Accessories

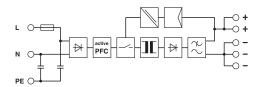
Assembly adapters - UTA 107 - 2853983

Universal DIN rail adapter

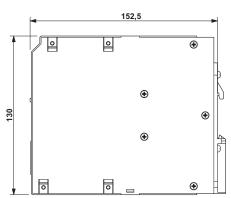


Drawings

Block diagram



Dimensioned drawing



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