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Extract from the online catalog

## TRIO-PS/ 3AC/24DC/40

Order No.: 2866404



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2866404>

DIN rail power supply unit, primary-switched mode, 3-phase, output:  
24 V DC / 40 A

Commercial data	
GTIN (EAN)	4046356046688
sales group	H001
Pack	1 pcs.
Customs tariff	85044081
Weight/Piece	3.34 KG
Catalog page information	Page 573 (IF-2009)

### Product notes

WEEE/RoHS-compliant since:  
10/17/2006



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### Product description

TRIO POWER is the DIN-rail-mountable power supply unit with basic functions. With an output voltage of 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 allows 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.

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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 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	3x 400 V AC ... 500 V AC
AC input voltage range	3 x 320 V AC ... 575 V AC
AC frequency range	45 Hz ... 65 Hz
Current consumption	Approx. 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)
Permissible backup fuse	B10 B16
Required backup fuse (device and line protection)	(externally via 3 10 A or 16 A circuit breakers, characteristic B)
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	22.5 V DC ... 29.5 V DC (> 24 V constant capacity)
Output current	40 A (-25°C ... 55°C)
Derating	+55°C to +70°C: 2.5% per Kelvin 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. 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 <sub>PP</sub>
Peak switching voltages nominal load	< 40 mV <sub>PP</sub>
Maximum power dissipation idling	16 W

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Power loss nominal load max.	91 W
<b>General data</b>	
Width	139 mm
Height	130 mm
Depth	190 mm
Net weight	2.9 kg
Operating voltage display	LED green
Efficiency	> 91.5 % (at 400 V AC and nominal values)
Insulation voltage input/output	4 kV AC (type test)
	2 kV AC (routine test)
Degree of protection	IP20
Class of protection	I, with PE connection
MTBF	> 500 000 h in acc. with IEC 61709 (SN 29500)
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, no condensation)
Mounting position	Horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontal 0 cm, vertical 5 cm
Electromagnetic compatibility	Conformance with EMC directive 2004/108/EC
Noise immunity	EN 61000-6-2:2005
Low Voltage Directive	Conformance with LV directive 2006/95/EC
Standard – Electrical equipment of machines	EN 60204
Standard - Safety of transformers	EN 61558-2-17
Standard - Electrical safety	EN 60950/VDE 0805 (SELV)
	EN 61558-2-17
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 (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

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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**

Type of connection	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	6 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	22
Conductor cross section AWG/kcmil max	10
Stripping length	8 mm
Screw thread	M3

**Connection data, output**

Type of connection	Screw connection
Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	16 mm <sup>2</sup>
Conductor cross section stranded min.	0.5 mm <sup>2</sup>
Conductor cross section stranded max.	10 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	8
Conductor cross section AWG/kcmil max	6
Stripping length	10 mm

**Signaling**

Status display	"DC OK" LED green
Note on status display	U <sub>OUT</sub> > 21.5 V: LED lights up

**Certificates / Approvals**



Certification

CUL, CUL Listed, UL, UL Listed

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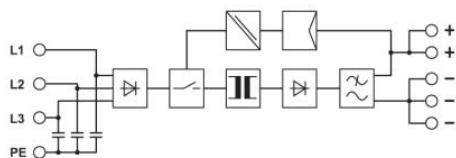
<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2866404>

**Accessories**

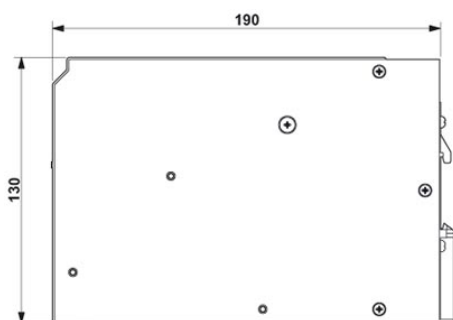
Item	Designation	Description
<b>General</b>		
2938235	UWA 182/52	Universal wall adapter

**Diagrams/Drawings**

Block diagram



Dimensioned drawing



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