

Power supply unit - UNO-PS/1AC/24DC/100W - 2902993

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Product Features

- ✓ Flexible mounting by simply snapping onto the DIN rail
- ✓ More space in the control cabinet with up to 20% higher power density
- ✓ Maximum energy efficiency, thanks to over 90% efficiency and extremely low idling losses under 0.3 W



Key commercial data

Packing unit	1 PCE
GTIN	 4 046356 729215
Custom tariff number	85044082
Country of origin	GERMANY

Technical data

Dimensions

Width	55 mm
Height	90 mm
Depth	84 mm

Input data

Nominal input voltage range	100 V AC ... 240 V AC
Input voltage range AC	85 V AC ... 264 V AC
AC frequency range	45 Hz ... 65 Hz
Current consumption	1.7 A (120 V AC)
Current consumption	1 A (230 V AC)

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Input data

Inrush surge current	< 40 A (typical)
Power failure bypass	> 20 ms (120 V AC)
Power failure bypass	> 100 ms (230 V AC)
Input fuse	4 A (slow-blow, internal)
Choice of suitable fuses	6 A ... 16 A (Characteristics B, C, D, K)
Type of protection	Transient surge protection
Protective circuit/component	Varistor

Output data

Nominal output voltage	24 V DC \pm 1%
Output current	4.2 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
Control deviation	< 1 % (change in load, static 10% ... 90%)
Control deviation	< 2 % (Dynamic load change 10% ... 90%, 10 Hz)
Control deviation	< 0.1 % (change in input voltage \pm 10%)
Residual ripple	< 30 mV _{PP} (with nominal values)
Maximum power dissipation NO-Load	< 0.5 W
Power loss nominal load max.	< 11 W

General

Net weight	0.34 kg
Efficiency	> 90 % (for 230 V AC and nominal values)
Insulation voltage input/output	4 kV AC (type test)
Insulation voltage input/output	3 kV AC (routine test)
Degree of protection	IP20
Protection class	II (in an enclosed control cabinet)
MTBF (IEC 61709, SN 29500)	> 500000 h (According to EN 29500)
Ambient temperature (operation)	-25 °C ... 70 °C (> 55° C derating)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	\leq 95 % (at 25 °C, no condensation)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Alignable: 0 mm horizontally, 30 mm vertically
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 60204-1

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General

Standard - Electrical safety	IEC 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	IEC 60950-1 (SELV) and EN 60204 (PELV)
Standard - Safe isolation	DIN VDE 0100-410
Standard - Protection against electric shock	DIN 57100-410
Standard - Limitation of mains harmonic currents	EN 61000-3-2
Approval - requirement of the semiconductor industry with regard to mains voltage dips	EN 61000-4-11
Information technology equipment - safety (CB scheme)	CB Scheme
UL approvals	UL Listed UL 508
UL approvals	UL/C-UL Recognized UL 60950

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	8 mm
Screw thread	M3

Connection data, output

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	6.5 mm

Signaling

Output name	LED status indicator
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Classifications

ETIM

ETIM 3.0	EC001039
ETIM 4.0	EC000599
ETIM 5.0	EC002540

UNSPSC

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

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

Approvals

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UL Recognized / UL Listed / cUL Recognized / cUL Listed / IECCEB Scheme / cULus Recognized / cULus Listed

Ex Approvals

Approvals submitted


Approval details

UL Recognized 


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Approvals

UL Listed 

cUL Recognized 

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IECEE CB Scheme 

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Accessories

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Redundancy module - STEP-DIODE/5-24DC/2X5/1X10 - 2868606



Redundancy module, 5-24 V DC, 2x 5 A, 1x 10 A

Drawings

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Block diagram

