

Power module - MINI-PS- 10- 42AC/15-60DC/3 - 2320199

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The AC feed module supplies the MINI DC/DC converter with a rectified and filtered supply voltage.

Why buy this product

- Enables the operation of the MINI DC/DC converters in an AC network.
- AC voltage of a transformer is rectified and filtered



Key Commercial Data

Packing unit	1 STK
GTIN	
GTIN	4046356577731

Technical data

Dimensions

Width	22.5 mm
Height	99 mm
Depth	107 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C Derating: 2.5 %/K)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Climatic class	3K3 (in acc. with EN 60721)
Degree of pollution	2

Input data

Nominal input voltage	24 V AC
Nominal input voltage range	10 V AC ... 42 V AC

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Input data

Input voltage range	10 V AC ... 42 V AC
AC frequency range	45 Hz ... 65 Hz
Current consumption	6.5 A
Inrush surge current	< 45 A (typical)
Choice of suitable circuit breakers	16 A (Characteristic C)

Output data

Nominal output voltage	28 V DC $\pm 1\%$
	60 V DC
Output voltage range	15 V DC ... 60 V DC
Nominal output current (I_N)	3 A (-25 °C ... 60 °C)
Derating	60 °C ... 70 °C (2.5%/K)
Connection in series	No
Residual ripple	< 3.6 V _{pp}
Maximum power dissipation in no-load condition	< 0.04 W
Power loss nominal load max.	< 6.9 W

General

Net weight	0.16 kg
Efficiency	> 95.7 % (For 42 V AC and nominal values)
Insulation voltage input/output	1.5 kV (type test)
	1 kV (routine test)
Protection class	III
Degree of protection	IP20
MTBF (IEC 61709, SN 29500)	> 18175000 h (40 °C)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	alignable: horizontally 0 mm, vertically 50 mm

Connection data, input

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section flexible min.	0.2 mm ²
Conductor cross section flexible max.	2.5 mm ²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
Stripping length	7 mm
Screw thread	M3

Connection data, output

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²

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Connection data, output

Conductor cross section flexible min.	0.2 mm ²
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Conductor cross section AWG min.	24
Conductor cross section AWG max.	12
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Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 55011 (EN 55022)
Noise immunity	EN 61000-6-2:2005
Connection in acc. with standard	CUL
Standards/regulations	EN 61000-4-2
Contact discharge	8 kV (Contact discharge)
Standards/regulations	EN 61000-4-3
Frequency range	80 MHz ... 3 GHz
Test field strength	10 V/m
Standards/regulations	EN 61000-4-4
Comments	Criterion B
Standards/regulations	EN 61000-4-5
Low Voltage Directive	Conformance with LV directive 2006/95/EC
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)
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950-1
Shock	18 ms, 30g, in each space direction (according to IEC 60068-2-27)
Vibration (operation)	< 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6)
	15 Hz ... 150 Hz, 2.3g
Rail applications	EN 50121-4

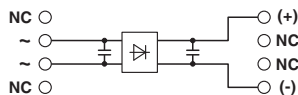
Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

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Block diagram



Approvals

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

Ex Approvals


Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 211944
UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 123528
cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 211944
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 123528
IECEE CB Scheme		http://www.iecee.org/	DK-2825-M1
EAC			RU C- DE.A*30.B.01082

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Approvals

EAC		EAC-Zulassung
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cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm
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