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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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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

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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

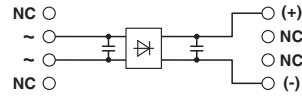
Environmental Product Compliance

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

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

Block diagram



Approvals

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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