

Diode - QUINT4-DIODE/48DC/2X20/1X40 - 2907720

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DIN rail diode module 48 V DC/2x20 A or 1x40 A. Uniform redundancy up to the consumer.

Product Description

A safe redundant system is the result of the parallel connection of two power supply units which are decoupled from one another. To further increase system availability, QUINT DIODE provides the solution: decoupling with diode.

Why buy this product

- ☒ Flexible
- ☒ Rugged design
- ☒ Consistent redundancy up to the load



Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 231396
GTIN	4055626231396
Weight per Piece (excluding packing)	960.000 g
Custom tariff number	85049091
Country of origin	China

Technical data

Dimensions

Width	50 mm
Height	130 mm
Depth	125 mm

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Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °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)
Installation height	≤ 2000 m

Input data

Nominal input voltage range	48 V DC
	48 V DC
Input voltage range	30 V DC ... 56 V DC
	30 V DC ... 56 V DC
Nominal input current	2x 20 A (-25 °C ... 60 °C)
	1x 40 A (-25 °C ... 60 °C)
Maximum input current	2x 30 A (-25°C ... 40°C)
	1x 60 A (-25°C ... 40°C)
Nominal input current	2x 20 A (-25 °C ... 60 °C)
	1x 40 A (-25 °C ... 60 °C)
Maximum input current	2x 30 A (-25°C ... 40°C)
	1x 60 A (-25°C ... 40°C)

Output data

Nominal output voltage	48 V DC
Nominal output current (I _N)	40 A (Increasing power)
	20 A (Redundancy)
Derating	60 °C ... 70 °C (2.5%/K)
Connection in series	No
Power loss nominal load max.	14 W (I _{OUT} = 20 A)

General

Net weight	0.75 kg
Efficiency	> 97 %
Insulation voltage input/output	type test
	routine test
Insulation voltage input / PE	type test
	routine test
Protection class	III
	40000000 h (40 °C)
Mounting position	horizontal DIN rail NS 35, EN 60715

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Technical data

General

Assembly instructions	Alignable: 5 mm horizontally, 15 mm next to active components, 50 mm vertically
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Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	16 mm ²
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	16 mm ²
Conductor cross section AWG min.	10
Conductor cross section AWG max.	6
Stripping length	10 mm
Screw thread	M4

Connection data, output

Connection method	Screw connection
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Conductor cross section flexible min.	0.5 mm ²
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Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Shock	18 ms, 30g, in each space direction (according to IEC 60068-2-27)
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	IEC 60950-1 (SELV) and EN 60204-1 (PELV)
Standard - Safe isolation	DIN VDE 0100-410
Standard – Protection against shock currents, basic requirements for protective separation in electrical equipment	EN 50178
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950
	UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D (Hazardous Location)
Vibration (operation)	< 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6)

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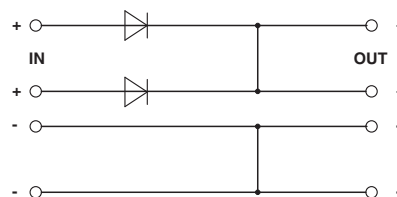
Technical data

Standards and Regulations

	15 Hz ... 150 Hz, 2.3g, 90 min.
Low Voltage Directive	Conformance with LV directive 2006/95/EC
ATEX	# II 3G Ex nA IIC T4 Gc
	KEMA 10 ATEX 0165X
IECEX	Ex nA IIC T4 Gc
	IECEX KEM 10.0091

Drawings

Block diagram



Classifications

eCl@ss

eCl@ss 5.1	27242213
eCl@ss 8.0	27371010
eCl@ss 9.0	27371010

ETIM

ETIM 5.0	EC000599
ETIM 6.0	EC000599

UNSPSC

UNSPSC 13.2	39121004
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Approvals

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UL Recognized / UL Listed / cUL Recognized / cUL Listed / DNV GL / cULus Listed

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Approvals

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
DNV GL		http://exchange.dnv.com/tari/	TAA000011F
cULus Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	

Accessories

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Assembly adapter

Assembly adapters - UWA 182/52 - 2938235



Universal wall adapter for securely mounting the power supply in the event of strong vibrations. The power supply is screwed directly onto the mounting surface. The universal wall adapter is attached at the top/bottom.

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Accessories

Assembly adapters - QUINT-PS-ADAPTERS7/1 - 2938196



Assembly adapter for QUINT-PS... power supply on S7-300 rail