

# QUINT-DIODE/48DC/2X20/1X40

Order No.: 2320160




<http://eshop.phoenixcontact.co.uk/phoenix/treeViewClick.do?UID=2320160>

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



## Commercial data

EAN	 4 046356 524759
Pack	1
Customs tariff	85044082
Country of Origin	CN
Catalog page information	Page 627 (IF-2011)

## Product notes

WEEE/RoHS-compliant since:  
17/08/2009



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## Technical data

### Input data

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

Maximum current $I_{max}$	2x 30 A (-25°C ... 40°C)
	1x 60 A (-25°C ... 40°C)
Nominal input current $I_N$	2x 20 A (-25 °C ... 60 °C)
	1x 40 A (-25 °C ... 60 °C)
Maximum current $I_{max}$	2x 30 A (-25°C ... 40°C)
	1x 60 A (-25°C ... 40°C)

#### Output data

Output current	40 A (Increasing power)
	20 A (Redundancy)
Derating	60 °C ... 70 °C (2.5%/K)
Power loss nominal load max.	14 W ( $I_{OUT} = 20$ A)

#### General data

Width	50 mm
Height	130 mm
Depth	125 mm
Net weight	0.75 kg
Efficiency	> 97 %
	> 97 %
Degree of protection	IP20
Protection class	III
Ambient temperature (operation)	-40 °C ... 70 °C
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: 5 mm horizontally, 15 mm next to active components, 5 cm vertically
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Low Voltage Directive	Conformance with Low Voltage Directive 2006/95/EC
ATEX	Ex II 3G Ex nA IIC T4 Gc
	KEMA 10 ATEX 0165X
IECEX	Ex nA IIC T4 Gc
	IECEX KEM 10.0091
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 (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
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950
	UL/C-UL listed ANSI/ISA 12.12.01

#### Connection data, input

Connection method	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.	12
Conductor cross section AWG/kcmil max	10
Stripping length	7 mm
Screw thread	M3

#### Connection data, output

Connection method	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.	16 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	10
Conductor cross section AWG/kcmil max	6
Stripping length	10 mm

#### Certificates



Certification CUL, CUL Listed, UL, UL Listed

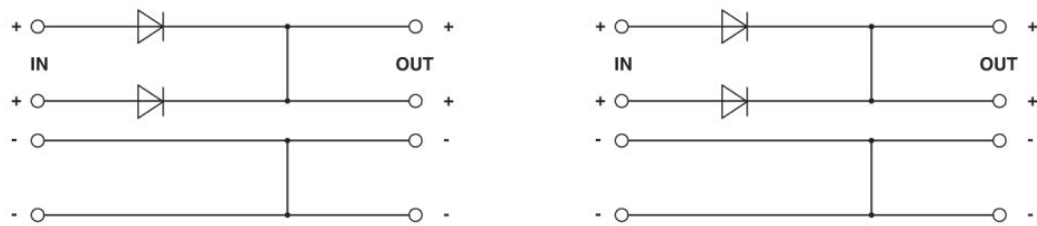
Certification Ex: CUL-EX LIS, IECEx, KEMA-EX, UL-EX LIS

**Accessories**

Item	Designation	Description
<b>General</b>		
2938196	QUINT-PS-ADAPTERS7/1	Assembly adapter for QUINT-PS... power supply on S7-300 rail
2320089	UTA 107/30	Universal DIN rail adapter
2938235	UWA 182/52	Universal wall adapter

**Drawings**

Block diagram



**Address**

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