

# Redundancy module, with protective coating - QUINT-DIODE/48DC/40 - 2866585

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QUINT-DIODE/48DC/40 redundancy module

The figure shows the item QUINT-DIODE/40 2938963



## Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 494458
GTIN	4046356494458

## Technical data

### Dimensions

Width	62 mm
Height	84 mm
Depth	102 mm

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C derating, # -25 ... 60°C)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Degree of pollution	2

### Input data

Nominal input voltage	48 V DC (U <sub>N</sub> )
	< 60 V DC (U <sub>max</sub> )
Input voltage range	10 V DC ... 60 V DC

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## Technical data

### Input data

Nominal input current	2x 20 A
	1x 40 A
Maximum input current	2x 19 A (6 mm <sup>2</sup> at 40°C)
	1x 39 A (6 mm <sup>2</sup> at 40°C)
	2x 16 A (6 mm <sup>2</sup> at 60°C)
	1x 32 A (6 mm <sup>2</sup> at 60°C)
	2x 27 A (10 mm <sup>2</sup> at 40°C)
	1x 54 A (10 mm <sup>2</sup> at 40°C)
	2x 21 A (10 mm <sup>2</sup> at 60°C)
	1x 43 A (10 mm <sup>2</sup> at 60°C)
	2x 30 A (16 mm <sup>2</sup> at 40°C)
	1x 60 A (16 mm <sup>2</sup> at 40°C)
	2x 24 A (16 mm <sup>2</sup> at 60°C)
	1x 48 A (16 mm <sup>2</sup> at 60°C)
Nominal input current	2x 20 A
	1x 40 A
Maximum input current	2x 17 A (6 mm <sup>2</sup> at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 35 A (6 mm <sup>2</sup> at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	2x 14 A (6 mm <sup>2</sup> at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 28 A (6 mm <sup>2</sup> at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	2x 24 A (10 mm <sup>2</sup> at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 49 A (10 mm <sup>2</sup> at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	2x 19 A (10 mm <sup>2</sup> at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 39 A (10 mm <sup>2</sup> at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	2x 27 A (16 mm <sup>2</sup> at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 54 A (16 mm <sup>2</sup> at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	2x 22 A (16 mm <sup>2</sup> at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 44 A (16 mm <sup>2</sup> at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)

### Output data

Nominal output voltage	47.3 V DC (Input/output voltage drop of 48 V ... 0.7 V )
Nominal output current (I <sub>N</sub> )	40 A

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## Technical data

### Output data

Connection in series	No
Power loss nominal load max.	28 W

### General

Net weight	0.7 kg
Efficiency	> 97 %
Insulation voltage input / PE	1 kV
Insulation voltage output / PE	1 kV
Protection class	II
Degree of protection	IP20
Mounting position	horizontal and vertical DIN rail NS 35, EN 60715
Assembly instructions	alignable: horizontal 20 mm, vertical 50 mm

### Connection data, input

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 flexible min.	0.5 mm <sup>2</sup>
Conductor cross section flexible max.	10 mm <sup>2</sup>
Conductor cross section AWG min.	20
Conductor cross section AWG max.	6
Stripping length	10 mm
Screw thread	M4

### 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 flexible min.	0.5 mm <sup>2</sup>
Conductor cross section flexible max.	10 mm <sup>2</sup>
Conductor cross section AWG min.	20
Conductor cross section AWG max.	6
Stripping length	10 mm
Screw thread	M4

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 55011
Noise immunity	EN 61000-6-2:2005
Connection in acc. with standard	CUL
Low Voltage Directive	Conformance with LV directive 2006/95/EC
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)

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## Technical data

### Standards and Regulations

Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Declaration of conformity in acc. with EN 60079-15	# II 3 G Ex nA II T4 X
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950-1
	UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D
Shock	30g, 18 ms according to IEC 60068-2-27
Vibration (operation)	3 Hz ... 15 Hz, amplitude ±2.5 mm; 15 Hz ... 100 Hz, 2.3g according to IEC 60068-2-6
ATEX	# II 3 G Ex nA II T4

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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## Approvals

### Approvals

#### Approvals

UL Listed / UL Recognized / cUL Recognized / cUL Listed / EAC / EAC / cULus Recognized / cULus Listed

#### Ex Approvals

ATEX / UL Listed / cUL Listed / cULus Listed

### Approval details


UL Listed		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 123528
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UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 211944
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cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 211944
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EAC			EAC-Zulassung
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