

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



2866585

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QUINT-DIODE/48DC/40 redundancy module



Commercial data

Item number	2866585
Packing unit	1 pc
Sales key	NULL
Product key	CMRP44
GTIN	4046356494458
Weight per piece (including packing)	679 g
Weight per piece (excluding packing)	679 g
Customs tariff number	85049090
Country of origin	CN

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Technical data

Input data

DC operation

Input voltage	48 V DC (U_N)
	< 60 V DC (U_{max})
Input voltage range	10 V DC ... 60 V DC
Input voltage range DC	10 V DC ... 60 V DC
Voltage type of supply voltage	DC
Reverse polarity protection	yes, < 120 V
Nominal input current (I_N)	2x 20 A
	1x 40 A
Maximum current I_{max}	2x 19 A (6 mm ² at 40°C)
	1x 39 A (6 mm ² at 40°C)
	2x 16 A (6 mm ² at 60°C)
	1x 32 A (6 mm ² at 60°C)
	2x 27 A (10 mm ² at 40°C)
	1x 54 A (10 mm ² at 40°C)
	2x 21 A (10 mm ² at 60°C)
	1x 43 A (10 mm ² at 60°C)
	2x 30 A (16 mm ² at 40 °C)
	1x 60 A (16 mm ² at 40 °C)
	2x 24 A (16 mm ² at 60°C)
	1x 48 A (16 mm ² at 60°C)
	Nominal input current (I_N)
1x 40 A	
Maximum current I_{max}	2x 17 A (6 mm ² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 35 A (6 mm ² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	2x 14 A (6 mm ² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 28 A (6 mm ² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	2x 24 A (10 mm ² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 49 A (10 mm ² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	2x 19 A (10 mm ² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 39 A (10 mm ² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	2x 27 A (16 mm ² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)

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	1x 54 A (16 mm ² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	2x 22 A (16 mm ² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 44 A (16 mm ² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
Transient surge protection	Transil diode
Voltage drop, input/output	approx. 0.7 V

Output data

Efficiency	> 97 %
Nominal output voltage	47.3 V DC (Input/output voltage drop of 48 V ... 0.7 V)
Nominal output current (I _N)	40 A
Power loss nominal load max.	28 W
Connection in series	no

Connection data

Input

Connection method	Screw connection
Conductor cross-section, rigid min.	0.5 mm ²
Conductor cross-section, rigid max.	16 mm ²
Conductor cross-section flexible min.	0.5 mm ²
Conductor cross-section flexible max.	10 mm ²
Conductor cross-section AWG min.	20
Conductor cross-section AWG max.	6
Stripping length	10 mm
Screw thread	M4
Tightening torque, min	1.2 Nm
Tightening torque max	1.5 Nm

Output

Connection method	Screw connection
Conductor cross-section, rigid min.	0.5 mm ²
Conductor cross-section, rigid max.	16 mm ²
Conductor cross-section flexible min.	0.5 mm ²
Conductor cross-section flexible max.	10 mm ²
Conductor cross-section AWG min.	20
Conductor cross-section AWG max.	6
Stripping length	10 mm
Screw thread	M4
Tightening torque, min	1.2 Nm
Tightening torque max	1.5 Nm

Electrical properties

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Insulation voltage output / PE	1 kV
Insulation voltage input / PE	1 kV

Product properties

Product type	Redundancy module
Product family	QUINT DIODE
LED	no

Insulation characteristics

Protection class	II
Degree of pollution	2

Dimensions

Width	62 mm
Height	84 mm
Depth	102 mm
Horizontal pitch	3.4 Div.

Installation dimensions

Installation distance right/left	5 mm / 5 mm
Installation distance top/bottom	50 mm / 50 mm

Mounting

Mounting type	DIN rail mounting
Assembly note	alignable: horizontal 20 mm, vertical 50 mm
Mounting position	horizontal and vertical DIN rail NS 35, EN 60715

Material specifications

Housing material	Metal
Type of housing	AlMg (hood), GD-ZnAlCu (cooling unit)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C derating, <h2>Standards and regulations</h2>

Declaration of conformity in acc. with EN 60079-15	<p>Jul 3, 2026, 5:23 PM Page 4 (7)</p>
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Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)

Approvals

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

Conformity/Approvals

ATEX	⊕ II 3 G Ex nA II T4
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EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
EMC requirements for noise emission	EN 61000-6-3
	EN 61000-6-4
EMC requirements for noise immunity	EN 61000-6-1
	EN 61000-6-2

Noise emission

Standards/regulations	EN 55011
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Classifications

UNSPSC

UNSPSC 21.0	32151504
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com