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

2866585

https://www.phoenixcontact.com/us/products/2866585

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



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

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 mm² at 40°C)
	1x 39 A (6 mm² at 40°C)
	2x 16 A (6 mm² at 60°C)
	1x 32 A (6 mm² at 60°C)
	2x 27 A (10 mm² at 40°C)
	1x 54 A (10 mm² at 40°C)
	2x 21 A (10 mm² at 60°C)
	1x 43 A (10 mm² at 60°C)
	2x 30 A (16 mm² at 40 °C)
	1x 60 A (16 mm² at 40 °C)
	2x 24 A (16 mm² at 60°C)
	1x 48 A (16 mm² at 60°C)
Nominal input current (I_N)	2x 20 A
	1x 40 A
Maximum current I_{max}	2x 17 A (6 mm² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 35 A (6 mm² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	2x 14 A (6 mm² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 28 A (6 mm² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	2x 24 A (10 mm² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 49 A (10 mm² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	2x 19 A (10 mm² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 39 A (10 mm² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	2x 27 A (16 mm² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)

	1x 54 A (16 mm² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	2x 22 A (16 mm² at 60°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)
	1x 44 A (16 mm² 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 mm²
Conductor cross-section, rigid max.	16 mm²
Conductor cross-section flexible min.	0.5 mm²
Conductor cross-section flexible max.	10 mm²
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 mm²
Conductor cross-section, rigid max.	16 mm²
Conductor cross-section flexible min.	0.5 mm²
Conductor cross-section flexible max.	10 mm²
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

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 HP

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, Ex °C)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Shock	30g, 18 ms in accordance with 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
Temp code	T4 (70 °C)

Standards and regulations

Declaration of conformity in acc. with EN 60079-15	Ex II 3 G Ex nA II T4 X

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	Ⓔx II 3 G Ex nA II T4

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

Classifications

UNSPSC

UNSPSC 21.0	32151504

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)

Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com