

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



2866585

<https://www.phoenixcontact.com/pc/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
Minimum order quantity	1 pc
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

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



2866585

<https://www.phoenixcontact.com/pc/products/2866585>

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	< yes120 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)	2x 20 A
		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)	
	1x 54 A (16 mm ² at 40°C for potentially explosive areas: Class I, Div. 2, Groups A, B, C, D; T4)	

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



2866585

<https://www.phoenixcontact.com/pc/products/2866585>

	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

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



2866585

<https://www.phoenixcontact.com/pc/products/2866585>

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 instructions	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, )
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

Standards and regulations

Declaration of conformity in acc. with EN 60079-15	 II 3 G Ex nA II T4 X
Standard – Electronic equipment for use in electrical power	EN 50178/VDE 0160 (PELV)

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



2866585

<https://www.phoenixcontact.com/pc/products/2866585>

installations and their assembly into electrical power installations	
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
------	----------------------

EMC data

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
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 55011

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



2866585

<https://www.phoenixcontact.com/pc/products/2866585>

Classifications

ECLASS

ECLASS-11.0	27371010
-------------	----------

UNSPSC

UNSPSC 21.0	32151504
-------------	----------

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



2866585

<https://www.phoenixcontact.com/pc/products/2866585>

Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 25; For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"
------------	---

Phoenix Contact 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com