

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	
Weight per Piece (excluding packing)	700.0 g
Custom tariff number	85049091
Country of origin	China

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)
Noise immunity	EN 61000-6-2:2005

Input data

Nominal input voltage	48 V DC (U _N)
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Input data

	< 60 V DC (U_{max})
Input voltage range	10 V DC ... 60 V DC
Nominal input current	2x 20 A
	1x 40 A
Maximum input current	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	2x 20 A
	1x 40 A
Maximum input current	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)
	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)

Output data

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Technical data

Output data

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

General

Net weight	0.7 kg
Efficiency	> 97 %
Protection class	II
Mounting position	horizontal and vertical DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontal 2 cm, vertical 5 cm

Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid 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

Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid 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

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Shock	30g, 18 ms according to IEC 60068-2-27
Noise emission	EN 55011
Noise immunity	EN 61000-6-2:2005
Connection in acc. with standard	CUL
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)

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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
	UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D
Vibration (operation)	3 Hz ... 15 Hz, amplitude ± 2.5 mm; 15 Hz ... 100 Hz, 2.3g according to IEC 60068-2-6
Low Voltage Directive	Conformance with LV directive 2006/95/EC
ATEX	# II 3 G Ex nA II T4

Classifications

eCl@ss

eCl@ss 4.0	27250311
eCl@ss 4.1	27250311
eCl@ss 5.0	27242213
eCl@ss 5.1	27242213
eCl@ss 6.0	27242209
eCl@ss 7.0	27242209
eCl@ss 8.0	27371010

ETIM

ETIM 3.0	EC000599
ETIM 4.0	EC000599
ETIM 5.0	EC000683

UNSPSC

UNSPSC 6.01	30211502
UNSPSC 7.0901	39121004
UNSPSC 11	39121004
UNSPSC 12.01	39121004
UNSPSC 13.2	39121004

Approvals

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

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Approvals

Ex Approvals

ATEX / UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details

UL Recognized 

UL Listed 

cUL Recognized 

cUL Listed 

EAC

EAC

cULus Recognized 

cULus Listed 