Redundancy module - QUINT-DIODE/40 - 2938963

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Redundancy module QUINT-DIODE/40

Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 929534
GTIN	4017918929534

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	24 V DC
Nominal input voltage range	24 V DC
Input voltage range	0 V DC ... 30 V DC
Nominal input current	2x 20 A
	1x 40 A

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Input data

Maximum input current	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)

Output data

Nominal output voltage	24 V DC
Nominal output current (I_N)	40 A
Connection in series	No
Power loss nominal load max.	20 W

General

Net weight	0.7 kg
Efficiency	> 97 %
Insulation voltage input / PE	1 kV
Insulation voltage output / PE	1 kV
Protection class	II (in closed control cabinet)
Degree of protection	IP20
MTBF (IEC 61709, SN 29500)	28571428 h (40 °C)
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 mm²
Conductor cross section solid 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

Connection data, output

Connection method	Screw connection

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Connection data, output

Conductor cross section solid min.	0.5 mm²
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Standards and Regulations

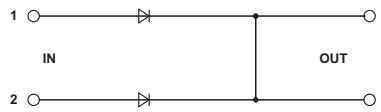
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Standards/regulations	EN 60079-0
Noise emission	EN 55011
Noise immunity	EN 61000-6-2:2005
Connection in acc. with standard	CUL
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Shipbuilding approval	DNV GL (EMC A), ABS
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
ATEX	# II 3G Ex nA IIC T4 Gc
	KEMA 03 ATEX 1197X

Environmental Product Compliance

REACh SVHC	Lead 7439-92-1

Drawings

Block diagram



Approvals

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Approvals

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ABS / DNV / ABS / 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

ABS		http://www.eagle.org/eagleExternalPortalWEB/	15-HG1369922-PDA-DUB
DNV		http://exchange.dnv.com/tari/	E-13904
ABS		http://www.eagle.org/eagleExternalPortalWEB/	15-HG1369922-PDA
UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 123528
UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 211944
cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 211944
cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 123528
EAC			EAC-Zulassung
EAC			RU C-DE.A*30.B.01082

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Approvals

cULus Recognized

cULus Listed

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