QUINT-DIODE/40 - Redundancy module

2938963

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Redundancy module QUINT-DIODE/40

Commercial data

Item number	2938963
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CMRP43
Product key	CMRP43
GTIN	4017918929534
Weight per piece (including packing)	683 g
Weight per piece (excluding packing)	600 g
Customs tariff number	85049090
Country of origin	CN

Technical data

Input data

DC operation

Input voltage	24 V DC
Nominal input voltage range	24 V DC
Input voltage range	0 V DC ... 30 V DC
Input voltage range DC	0 V DC ... 30 V DC
Voltage type of supply voltage	DC
Reverse polarity protection	yes, < 60 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)
Transient surge protection	Transil diode
Voltage drop, input/output	0.5 V

Output data

Efficiency	> 97 %
Nominal output voltage	24 V DC
Nominal output current (I_N)	40 A
Power loss nominal load max.	20 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

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

Electrical properties

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

Product properties

Product type	Redundancy module
Product family	QUINT DIODE
MTBF (IEC 61709, SN 29500)	28571428 h (40 °C)
LED	no

Insulation characteristics

Protection class	II (in closed control cabinet)
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, Ⓔx ⏚ ⏁ ⏁ ⏚°C)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, non-condensing)

Standards and regulations

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)
Standards/specifications	EN 60079-0

Approvals

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

Conformity/Approvals

ATEX	Ⓔx II 3G Ex nA IIC T4 Gc
	KEMA 03 ATEX 1197X

EMC data

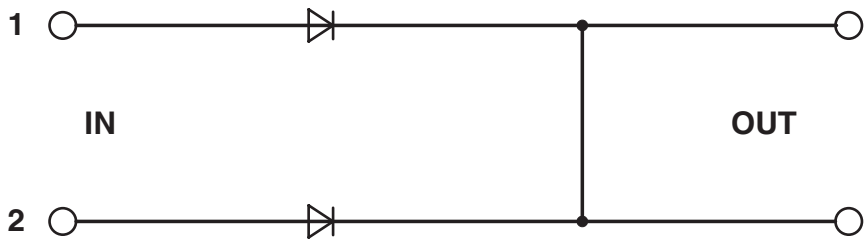
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
EMC requirements for noise emission	EN 61000-6-3
	EN 61000-6-4
EMC requirements for noise immunity	EN 61000-6-1
	EN 61000-6-2

Noise emission

Standards/regulations	EN 55011

Drawings

Block diagram



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)

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