

# Redundancy module - QUINT-DIODE/40



2938963

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## Commercial Data

Item number	2938963
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CMR
Product Key	CMRP43
Catalog Page	Page 596 (IF-2009)
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	< yes60 V
Nominal input current ( $I_N$ )	2x 20 A 1x 40 A
Maximum current $I_{max}$	2x 19 A (6 mm <sup>2</sup> at 40°C) 1x 39 A (6 mm <sup>2</sup> at 40°C) 2x 16 A (6 mm <sup>2</sup> at 60°C) 1x 32 A (6 mm <sup>2</sup> at 60°C) 2x 27 A (10 mm <sup>2</sup> at 40°C) 1x 54 A (10 mm <sup>2</sup> at 40°C) 2x 21 A (10 mm <sup>2</sup> at 60°C) 1x 43 A (10 mm <sup>2</sup> at 60°C) 2x 30 A (16 mm <sup>2</sup> at 40 °C) 1x 60 A (16 mm <sup>2</sup> at 40 °C) 2x 24 A (16 mm <sup>2</sup> at 60°C) 1x 48 A (16 mm <sup>2</sup> 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
Output voltage	$U_{in}$ -
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 solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	16 mm <sup>2</sup>
Conductor cross section flexible min.	0.5 mm <sup>2</sup>
Conductor cross section flexible max.	10 mm <sup>2</sup>

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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 solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	16 mm <sup>2</sup>
Conductor cross section flexible min.	0.5 mm <sup>2</sup>
Conductor cross section flexible max.	10 mm <sup>2</sup>
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
MTBF (IEC 61709, SN 29500)	28571428 h (40 °C)

## 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 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

Color	aluminium
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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, □ -25 ... 60°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

## Approval data

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	□ 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	EN 55011
Noise immunity	EN 61000-6-2:2005

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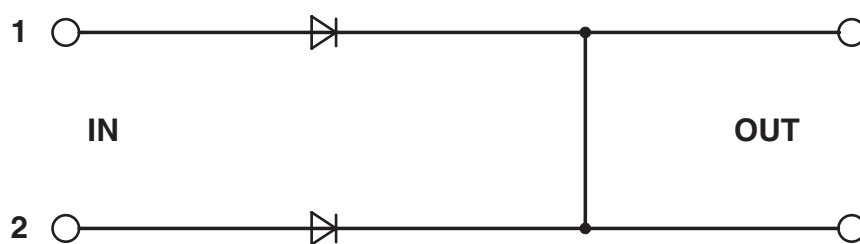


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## Drawings

Block diagram



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## Classifications

### ECLASS

ECLASS-9.0	27371010
ECLASS-10.0.1	27371010
ECLASS-11.0	27371010

### ETIM

ETIM 7.0	EC000683
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### UNSPSC

UNSPSC 21.0	32151504
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## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25; For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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