

# Redundancy module - QUINT-DIODE/40 - 2938963

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's documentation. Our General Terms of Use for Downloads are valid (<http://download.phoenixcontact.com>)



Redundancy module QUINT-DIODE/40



## Key commercial data

package_quantity	1
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)
Noise immunity	EN 61000-6-2:2005

### Input data

Nominal input voltage	24 V DC
Input voltage range	0 V DC ... 30 V DC
Nominal input current I <sub>N</sub>	2x 20 A (Max. 30 A)
Nominal input current I <sub>N</sub>	1x 40 A (Max. 60 A)
Maximum current I <sub>max</sub>	2x 19 A (6 mm <sup>2</sup> at 40°C)
Maximum current I <sub>max</sub>	1x 39 A (6 mm <sup>2</sup> at 40°C)
Maximum current I <sub>max</sub>	2x 16 A (6 mm <sup>2</sup> at 60°C)
Maximum current I <sub>max</sub>	1x 32 A (6 mm <sup>2</sup> at 60°C)
Maximum current I <sub>max</sub>	2x 27 A (10 mm <sup>2</sup> at 40°C)
Maximum current I <sub>max</sub>	1x 54 A (10 mm <sup>2</sup> at 40°C)

# Redundancy module - QUINT-DIODE/40 - 2938963

## Technical data

### Input data

Maximum current $I_{max}$	2x 21 A (10 mm <sup>2</sup> at 60°C)
Maximum current $I_{max}$	1x 43 A (10 mm <sup>2</sup> at 60°C)
Maximum current $I_{max}$	2x 30 A (16 mm <sup>2</sup> at 40°C)
Maximum current $I_{max}$	1x 60 A (16 mm <sup>2</sup> at 40°C)
Maximum current $I_{max}$	2x 24 A (16 mm <sup>2</sup> at 60°C)
Maximum current $I_{max}$	1x 48 A (16 mm <sup>2</sup> at 60°C)

### Output data

Output current	40 A
Power loss nominal load max.	20 W

### General

Net weight	0.7 kg
Efficiency	> 97 %
Insulation voltage input/output	1 kV
Protection class	II (in closed control cabinet)
Mounting position	horizontal and vertical DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontal 2 cm, vertical 5 cm
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
Noise emission	EN 55011
Declaration of conformity in acc. with EN 60079-15	# II 3 G Ex nA II T4 X
ATEX	# II 3 G Ex nA II T4
Standard - Electrical safety	EN 60950-1/VDE 0805 (SELV)
Shipbuilding approval	Germanischer Lloyd (EMC 2), ABS, DNV
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
UL approvals	UL/C-UL listed UL 508
UL approvals	UL/C-UL Recognized UL 60950
UL approvals	UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D

### 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 stranded min.	0.5 mm <sup>2</sup>
Conductor cross section stranded max.	10 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	6
Stripping length	10 mm
Screw thread	M4

### Connection data, output

Connection method	Screw connection
-------------------	------------------

# Redundancy module - QUINT-DIODE/40 - 2938963

## Technical data

### Connection data, output

Conductor cross section solid min.	0.5 mm <sup>2</sup>
Conductor cross section solid max.	16 mm <sup>2</sup>
Conductor cross section stranded min.	0.5 mm <sup>2</sup>
Conductor cross section stranded max.	10 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	6
Stripping length	10 mm

## classifications

### eCl@ss

eCl@ss 4.0	27040702
eCl@ss 4.1	27040702
eCl@ss 5.0	27242213
eCl@ss 5.1	27242213
eCl@ss 6.0	27049005
eCl@ss 7.0	27049005
eCl@ss 8.0	27049005

### ETIM

ETIM 2.0	EC001039
ETIM 3.0	EC001039
ETIM 4.0	EC000599
ETIM 5.0	EC002540

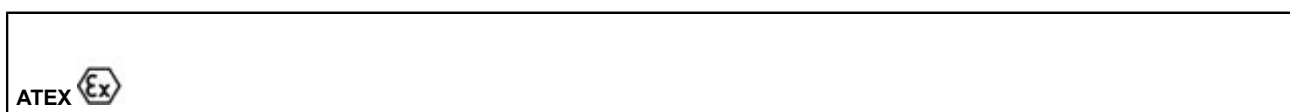
### UNSPSC

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

## approvals

ATEX / UL Listed / cUL Listed / cULus Listed / UL Recognized / UL Listed / cUL Recognized / cUL Listed / DNV / cULus Recognized / cULus Listed /

### Approval details



# Redundancy module - QUINT-DIODE/40 - 2938963

## approvals

Nominal voltage UN	
Nominal current IN	
mm <sup>2</sup> /AWG/kcmil	

UL Listed

cUL Listed

cULus Listed

UL Recognized

cUL Recognized

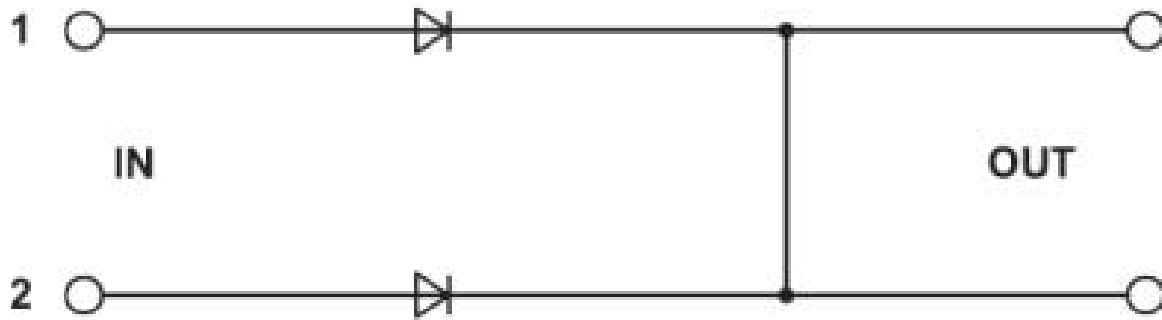
DNV

cULus Recognized

## Drawings

## Redundancy module - QUINT-DIODE/40 - 2938963

Block diagram



© Phoenix Contact 2014 - all rights reserved  
<http://www.phoenixcontact.com>