

# Redundancy module - QUINT-ORING/24DC/2X20/1X40 - 2320186

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Active QUINT redundancy module for DIN rail mounting with integrated SFB (selective fuse breaking) technology and monitoring functions, input: 24 V DC, output: 24 V DC/2 x 20 A or 1 x 40 A, including mounted universal DIN rail adapter UTA 107/30

## Product Features

- Service life of the redundant solution is doubled, thanks to uniform distribution of the load
- Save energy
- Permanent monitoring of redundancy
- Consistent redundancy up to the load



## Key commercial data

package_quantity	1
GTIN	4046356524919

## Technical data

### Dimensions

Width	38 mm
Height	130 mm
Depth	125 mm
Width with alternative assembly	122 mm
Height with alternative assembly	130 mm
Depth with alternative assembly	41 mm

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 60 °C derating)
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	≤ 95 % (at 25 °C, no condensation)
Noise immunity	EN 61000-6-2:2005

### Input data

Nominal input voltage	24 V DC
Nominal input voltage range	[NO ASSET AVAILABLE: TXB,7125656,P]
Input voltage range DC	18 V DC ... 28 V DC (SELV)

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## Technical data

### Input data

<b>Type of protection</b>	Protection against static surge voltages > 30 V
<b>Nominal input current I<sub>N</sub></b>	2x 20 A (-25 °C ... 60 °C)
<b>Nominal input current I<sub>N</sub></b>	1x 40 A (-25 °C ... 60 °C)
<b>Maximum current I<sub>max</sub></b>	2x 26 A (-25°C ... 40°C)
<b>Maximum current I<sub>max</sub></b>	1x 52 A (-25°C ... 40°C)

### Output data

<b>Nominal output voltage</b>	0.2 V (< DC input)
<b>Output current</b>	40 A (Increasing power)
<b>Output current</b>	20 A (Redundancy)
<b>Derating</b>	60 °C ... 70 °C (2.5%/K)
<b>Power loss nominal load max.</b>	8 W (I <sub>OUT</sub> = 40 A)

### General

<b>Net weight</b>	0.6 kg
<b>Efficiency</b>	> 98 %
<b>Protection class</b>	III
<b>MTBF (IEC 61709, SN 29500)</b>	> 720000 h (According to EN 29500)
<b>Mounting position</b>	horizontal DIN rail NS 35, EN 60715
<b>Assembly instructions</b>	Alignable: 5 mm horizontally, 15 mm next to active components, 50 mm vertically
<b>Electromagnetic compatibility</b>	Conformance with EMC Directive 2004/108/EC
<b>Low Voltage Directive</b>	Conformance with LV directive 2006/95/EC
<b>Standard – Electrical equipment of machines</b>	EN 60204
<b>Standard - Electrical safety</b>	EN 60950-1/VDE 0805 (SELV)
<b>Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations</b>	EN 50178/VDE 0160 (PELV)
<b>Standard – Safety extra-low voltage</b>	IEC 60950-1 (SELV) and EN 60204 (PELV)
<b>UL approvals</b>	UL/C-UL listed UL 508
<b>UL approvals</b>	UL/C-UL Recognized UL 60950
<b>UL approvals</b>	UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D (Hazardous Location)

### Connection data, input

<b>Connection method</b>	Screw connection
<b>Conductor cross section solid min.</b>	0.2 mm <sup>2</sup>
<b>Conductor cross section solid max.</b>	6 mm <sup>2</sup>
<b>Conductor cross section stranded min.</b>	0.2 mm <sup>2</sup>
<b>Conductor cross section stranded max.</b>	4 mm <sup>2</sup>
<b>Conductor cross section AWG/kcmil min.</b>	10
<b>Stripping length</b>	8 mm
<b>Screw thread</b>	M3

### Connection data, output

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## Technical data

### Connection data, 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 stranded min.	0.5 mm <sup>2</sup>
Conductor cross section stranded max.	16 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	6
Stripping length	10 mm

### Signaling

Output name	Redundancy OK, 13/14
Output description	Group contact
Maximum switching voltage	max. 30 V AC/DC
Maximum inrush current	≤ 100 mA (short-circuit resistant)
Status display	LED redundancy OK
Note on status display	Green
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	6 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	4 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	16
Conductor cross section AWG/kcmil max	10
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm
Screw thread	M3
Output name	ACB (Auto Current Balancing) OK, 23/24
Output description	Contact closed: $\Delta U_{IN} \leq 300 \text{ mV}$
Maximum switching voltage	max. 30 V AC/DC
Maximum inrush current	≤ 100 mA (short-circuit resistant)
Status display	ACB OK LED
Note on status display	LED bar graph green

## 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	27049005
eCl@ss 7.0	27049005
eCl@ss 8.0	27049005

ETIM

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## classifications

### ETIM

<b>ETIM 3.0</b>	EC000599
<b>ETIM 4.0</b>	EC000599
<b>ETIM 5.0</b>	EC002540

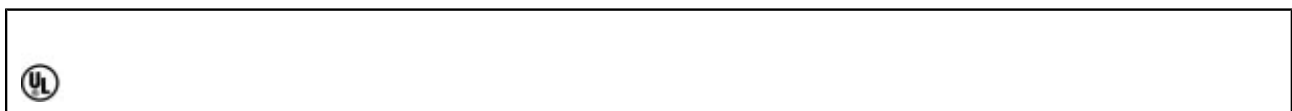
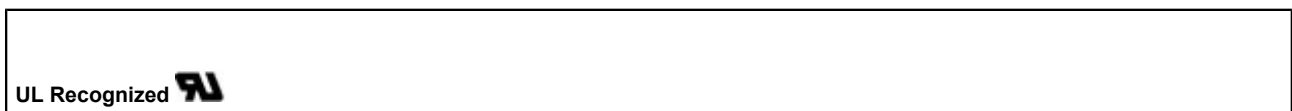
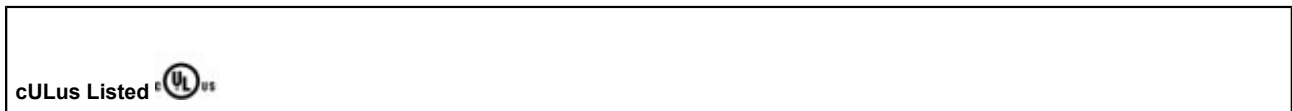
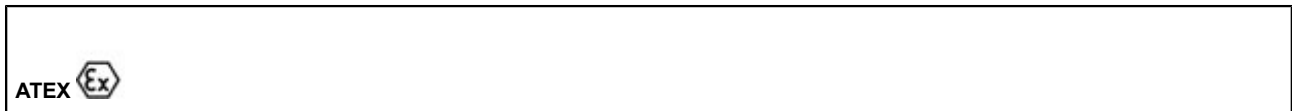
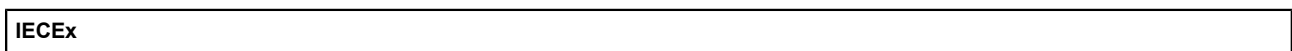
### UNSPSC

<b>UNSPSC 6.01</b>	30211502
<b>UNSPSC 7.0901</b>	39121004
<b>UNSPSC 11</b>	39121004
<b>UNSPSC 12.01</b>	39121004
<b>UNSPSC 13.2</b>	39121004

## approvals

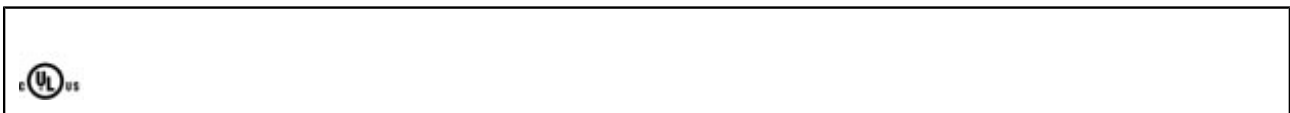
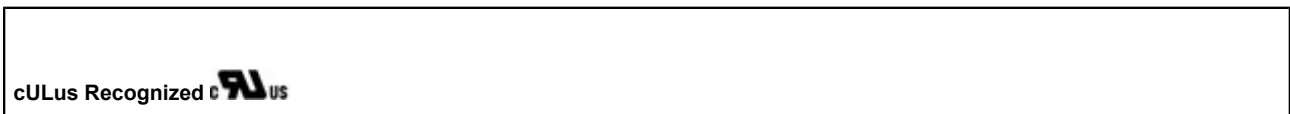
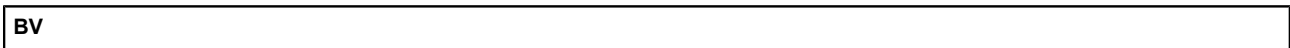
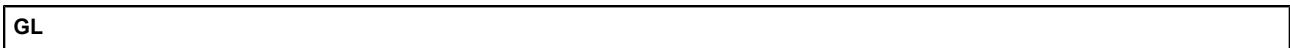
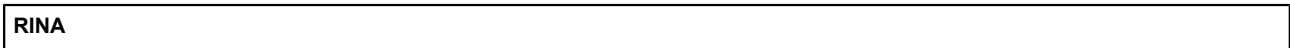
UL Listed / cUL Listed / IECEx / ATEX / cULus Listed / UL Recognized / UL Listed / cUL Recognized / cUL Listed / RINA / GL / cUL Listed / BV / cULus Recognized / cULus Listed /

### Approval details



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approvals



accessories

## Assembly adapter

UTA 107/30 - 2320089



UWA 182/52 - 2938235

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accessories

QUINT-PS-ADAPTERS7/1 - 2938196



## Drawings

Block diagram

