# Redundancy module - QUINT-ORING/24DC/2X10/1X20 - 2320173

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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 10 A or 1 x 20 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

| | |
|---|---|
| Packing unit | 1 PCE |
| GTIN | 4 046356 524902 |
| Custom tariff number | 85044090 |
| Country of origin | CHINA |

## Technical data

### Input data

| | |
|---|---|
| Nominal input voltage | 24 V DC |
| Nominal input voltage range |  |
| Nominal input voltage range | 18 V DC ... 28 V DC (SELV) |
| Input voltage range DC |  |
| Type of protection | Protection against static surge voltages > 30 V |
| Nominal input current $I_N$ | 2x 10 A (-25 °C ... 60 °C) |
| Nominal input current $I_N$ | 1x 20 A (-25 °C ... 60 °C) |

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## Technical data

### Input data

| | |
|---|---|
| Maximum current $I_{max}$ | 2x 15 A (-25°C ... 40°C) |
| Maximum current $I_{max}$ | 1x 30 A (-25°C ... 40°C) |

### Output data

| | |
|---|---|
| Nominal output voltage | 0.1 V (< DC input) |
| Output current | 20 A (Increasing power) |
| Output current | 10 A (Redundancy) |
| Derating | 60 °C ... 70 °C (2.5%/K) |
| Power loss nominal load max. | 2 W ($I_{OUT}$ = 20 A) |

### General data

| | |
|---|---|
| Width | 32 mm |
| Height | 130 mm |
| Depth | 125 mm |
| Width with alternative assembly | 122 mm |
| Height with alternative assembly | 130 mm |
| Depth with alternative assembly | 35 mm |
| Net weight | 0.4 kg |
| Efficiency | > 98 % |
| Degree of protection | IP20 |
| Protection class | III |
| MTBF (IEC 61709, SN 29500) | > 1000000 h (According to EN 29500) |
| 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) |
| Mounting position | horizontal DIN rail NS 35, EN 60715 |
| Assembly instructions | Alignable: 5 mm horizontally, 15 mm next to active components, 50 mm vertically |
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| Noise immunity | EN 61000-6-2:2005 |
| Low Voltage Directive | Conformance with Low Voltage Directive 2006/95/EC |
| Standard – Electrical equipment of machines | EN 60204 |
| 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) |
| Standard – Safety extra-low voltage | IEC 60950-1 (SELV) and EN 60204 (PELV) |
| UL approvals | UL/C-UL listed UL 508 |
| UL approvals | UL/C-UL Recognized UL 60950 |

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## Technical data

### General data

| | |
|---|---|
| UL approvals | UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D (Hazardous Location) |

### Connection data, input

| | |
|---|---|
| Connection method | Screw connection |
| Conductor cross section solid min. | 0.2 mm² |
| Conductor cross section solid max. | 4 mm² |
| Conductor cross section stranded min. | 0.2 mm² |
| Conductor cross section stranded max. | 2.5 mm² |
| Conductor cross section AWG/kcmil min. | 14 |
| Conductor cross section AWG/kcmil max | 12 |
| Stripping length | 8 mm |
| Screw thread | M3 |

### Connection data, output

| | |
|---|---|
| Connection method | Screw connection |
| Conductor cross section solid min. | 0.2 mm² |
| Conductor cross section solid max. | 6 mm² |
| Conductor cross section stranded min. | 0.2 mm² |
| Conductor cross section stranded max. | 4 mm² |
| Conductor cross section AWG/kcmil min. | 10 |
| Stripping length | 7 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 mm² |
| Conductor cross section solid max. | 4 mm² |
| Conductor cross section stranded min. | 0.2 mm² |
| Conductor cross section stranded max. | 2.5 mm² |
| Conductor cross section AWG/kcmil min. | 16 |
| Conductor cross section AWG/kcmil max | 12 |
| Tightening torque, min | 0.5 Nm |
| Tightening torque max | 0.6 Nm |
| Screw thread | M3 |

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## Technical data

### Signaling

| | |
|---|---|
| Output name | ACB (Auto Current Balancing) OK, 23/24 |
| Output description | Contact closed: $\Delta U_{IN} \leq 300$ 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

### ETIM

| | |
|---|---|
| ETIM 3.0 | EC000599 |
| ETIM 4.0 | EC000599 |
| ETIM 5.0 | EC000599 |

### UNSPSC

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

### 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 |

## Approvals

### Approvals

Approvals

UL Recognized / UL Listed / cUL Recognized / cUL Listed / RINA / GL / cULus Recognized / cULus Listed

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## Approvals

Ex Approvals

UL Listed / cUL Listed / IECEx / ATEX / cULus Listed

Approvals submitted

### Approval details

UL Recognized

UL Listed

cUL Recognized

cUL Listed

RINA

GL

cULus Recognized

cULus Listed

## Accessories

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## Accessories

Assembly adapters - UTA 107/30 - 2320089



Universal DIN rail adapter

Assembly adapters - UWA 182/52 - 2938235



Universal wall adapter

Assembly adapters - QUINT-PS-ADAPTERS7/1 - 2938196

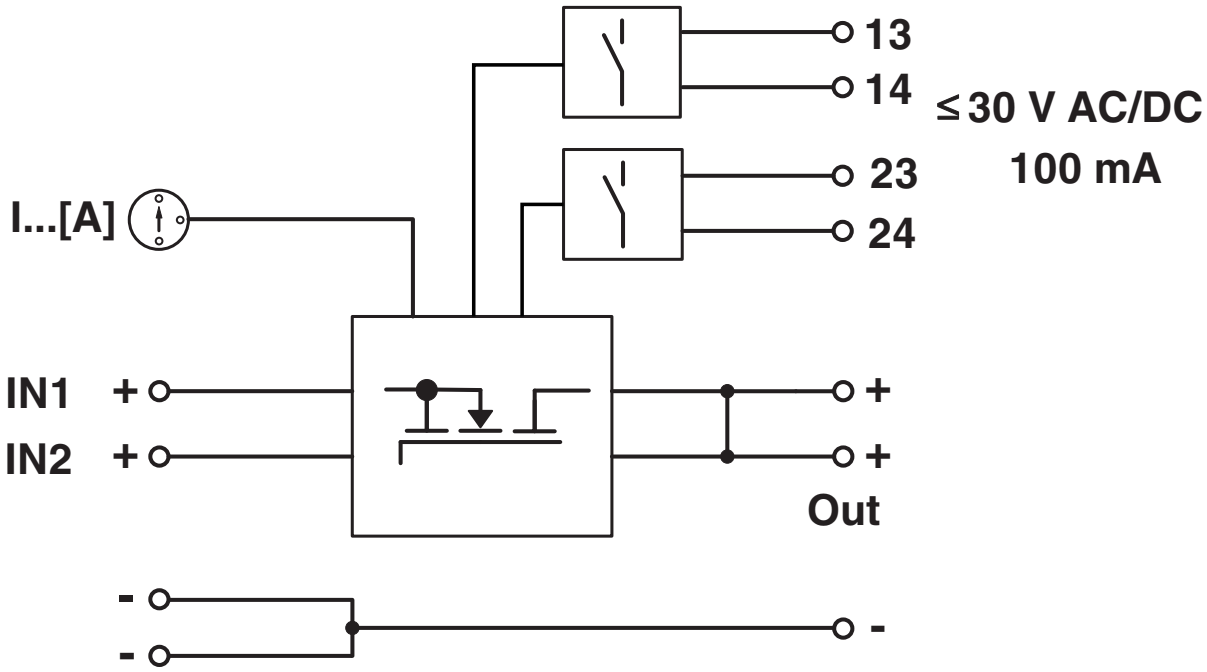


Assembly adapter for QUINT-PS... power supply on S7-300 rail

## Drawings

# Redundancy module - QUINT-ORING/24DC/2X10/1X20 - 2320173

Block diagram



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