

# QUINT-PS/1AC/24DC/ 3.5 - Power supply unit



2866747

<https://www.phoenixcontact.com/us/products/2866747>

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Primary-switched power supply unit QUINT POWER, Screw connection, SFB Technology (Selective Fuse Breaking), input: 1-phase, output: 24 V DC / 3.5 A

## Product description

QUINT POWER power supplies with maximum functionality

QUINT POWER circuit breakers magnetically and therefore quickly trip at six times the nominal current, for selective and therefore cost-effective system protection. The high level of system availability is additionally ensured, thanks to preventive function monitoring, as it reports critical operating states before errors occur.

Reliable starting of heavy loads takes place via the static power reserve POWER BOOST. Thanks to the adjustable voltage, all ranges between 5 V DC ... 56 V DC are covered.

## Your advantages

- Reliable starting of difficult loads with the static POWER BOOST power reserve with up to 1.5 times the nominal current permanently
- Fast tripping of standard circuit breakers with dynamic power reserve SFB (selective fuse breaking) technology with up to 6 times the nominal current for 12 ms
- For superior system availability
- Preventive function monitoring

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2866747             |
| Packing unit                         | 1 pc                |
| Minimum order quantity               | 1 pc                |
| Sales key                            | CM11                |
| Product key                          | CMPQ13              |
| Catalog page                         | Page 242 (C-4-2019) |
| GTIN                                 | 4046356113779       |
| Weight per piece (including packing) | 874.5 g             |
| Weight per piece (excluding packing) | 546 g               |
| Customs tariff number                | 85044095            |
| Country of origin                    | TH                  |

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## Technical data

### Input data

#### AC operation

|  |  |
|--|--|
| Nominal input voltage range              | 100 V AC ... 240 V AC  |
| Input voltage range                      | 85 V AC ... 264 V AC<br>90 V DC ... 350 V DC                                 |
| Input voltage range AC                   | 85 V AC ... 264 V AC   |
| Input voltage range DC                   | 90 V DC ... 350 V DC   |
| Electric strength, max.                  | 300 V AC   |
| Voltage type of supply voltage           | AC/DC  |
| Inrush current                           | < 20 A (typical)   |
| Inrush current integral ( $I^2t$ )       | < 2 A <sup>2</sup> s   |
| AC frequency range                       | 45 Hz ... 65 Hz  |
| Frequency range DC                       | 0 Hz   |
| Mains buffering time                     | typ. 20 ms (120 V AC)<br>typ. 80 ms (230 V AC)                               |
| Current consumption                      | 1.4 A (120 V AC)<br>0.8 A (230 V AC)<br>0.9 A (110 V DC)<br>0.4 A (220 V DC) |
| Nominal power consumption                | 180 VA   |
| Protective circuit                       | Transient surge protection; Varistor   |
| Typical response time                    | < 0.05 s   |
| Input fuse                               | 5 A (slow-blow, internal)  |
| Permissible backup fuse                  | B6 B10 B16 AC:   |
| Permissible DC backup fuse               | DC: Connect a suitable fuse upstream   |
| Recommended breaker for input protection | 6 A ... 20 A (AC: Characteristics B, C, D, K)                                |
| Discharge current to PE                  | < 3.5 mA   |

### Output data

|  |   |
|--|---|
| Efficiency   | > 88 % (for 230 V AC and nominal values)                        |
| Output characteristic                              | U/I   |
| Nominal output voltage                             | 24 V DC $\pm$ 1 %   |
| Setting range of the output voltage ( $U_{Set}$ )  | 18 V DC ... 29.5 V DC (> 24 V DC, constant capacity restricted) |
| Nominal output current ( $I_N$ )                   | 3.5 A (-25 °C ... 60 °C, $U_{OUT}$ = 24 V DC)                   |
| POWER BOOST ( $I_{Boost}$ )                        | 4 A (-25 °C ... 40 °C permanent, $U_{OUT}$ = 24 V DC )          |
| Selective Fuse Breaking ( $I_{SFB}$ )              | 15 A (12 ms)  |
| Magnetic circuit breaker tripping                  | B2  |
| Derating   | 60 °C ... 70 °C (2.5 %/K)                                       |
| Feedback voltage resistance                        | $\leq$ 35 V DC  |
| Protection against overvoltage at the output (OVP) | $\leq$ 35 V DC<br>< 1 % (change in load, static 10 % ... 90 %)  |

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|                                   |   |
|-----------------------------------|---|
| Control deviation                 | < 2 % (change in load, dynamic 10 % ... 90 %) |
|                                   | < 0.1 % (change in input voltage $\pm 10$ %)  |
| Residual ripple                   | < 50 mV <sub>PP</sub> (with nominal values)   |
| Output power                      | 84 W  |
| Maximum no-load power dissipation | 3.5 W   |
| Power loss nominal load max.      | 11 W  |
| Rise time                         | < 0.04 s ( $U_{OUT}$ (10 % ... 90 %))         |
| Connection in parallel            | yes, for redundancy and increased capacity    |
| Connection in series              | yes   |

## Signal: DC OK active

|                         |  |
|-------------------------|--|
| Output description      | $U_{OUT} > 0.9 \times U_N$ : High signal |
| Switching voltage range | 18 V DC ... 24 V DC                      |
| Maximum inrush current  | $\leq 20$ mA (short-circuit-proof)       |
| Continuous load current | $\leq 20$ mA                             |

## Signal: DC OK floating

|                           |  |
|---------------------------|--|
| Output description        | Relay contact, $U_{OUT} > 0.9 \times U_N$ : Contact closed |
| Maximum switching voltage | 30 V AC/DC   |
|                           | 24 V DC  |
| Maximum inrush current    | 0.5 A  |
|                           | 1 A  |
| Continuous load current   | $\leq 1$ A   |

## Signal: POWER BOOST, active

|                         |                                    |
|-------------------------|------------------------------------|
| Output description      | $I_{OUT} < I_N$ : High signal      |
| Switching voltage range | 18 V DC ... 24 V DC                |
| Output voltage          | + 24 V DC                          |
| Maximum inrush current  | $\leq 20$ mA (short-circuit-proof) |
| Continuous load current | $\leq 20$ mA                       |

## Connection data

### Input

|                                       |                     |
|---------------------------------------|---------------------|
| Connection method                     | Screw connection    |
| Conductor cross section, rigid min.   | 0.2 mm <sup>2</sup> |
| Conductor cross section, rigid max.   | 2.5 mm <sup>2</sup> |
| Conductor cross section flexible min. | 0.2 mm <sup>2</sup> |
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG min.      | 20                  |
| Conductor cross section AWG max.      | 12                  |
| Stripping length                      | 7 mm                |
| Screw thread                          | M3                  |
| Tightening torque, min                | 0.5 Nm              |
| Tightening torque max                 | 0.6 Nm              |

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## Output

|                                       |                     |
|---------------------------------------|---------------------|
| Connection method                     | Screw connection    |
| Conductor cross section, rigid min.   | 0.2 mm <sup>2</sup> |
| Conductor cross section, rigid max.   | 2.5 mm <sup>2</sup> |
| Conductor cross section flexible min. | 0.2 mm <sup>2</sup> |
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG min.      | 20                  |
| Conductor cross section AWG max.      | 12                  |
| Stripping length                      | 7 mm                |
| Screw thread                          | M3                  |
| Tightening torque, min                | 0.5 Nm              |
| Tightening torque max                 | 0.6 Nm              |

## Signal

|                                       |                            |
|---------------------------------------|----------------------------|
| Connection method                     | Pluggable screw connection |
| Conductor cross section, rigid min.   | 0.2 mm <sup>2</sup>        |
| Conductor cross section, rigid max.   | 2.5 mm <sup>2</sup>        |
| Conductor cross section flexible min. | 0.2 mm <sup>2</sup>        |
| Conductor cross section flexible max. | 2.5 mm <sup>2</sup>        |
| Conductor cross section AWG min.      | 20                         |
| Conductor cross section AWG max.      | 12                         |
| Screw thread                          | M3                         |
| Tightening torque, min                | 0.5 Nm                     |
| Tightening torque max                 | 0.6 Nm                     |

## Signaling

|                           |                         |
|---------------------------|-------------------------|
| Types of signaling        | LED                     |
|                           | Active switching output |
|                           | Relay contact           |
| Operating voltage display | Green LED               |

### Signal output: DC OK active

|                        |   |
|------------------------|---|
| Status display         | $U_{OUT} > 0.9 \times U_N$ : "DC OK" LED green    |
| Note on status display | $U_{OUT} < 0.9 \times U_N$ : Flashing "DC OK" LED |
|                        | $I_{OUT} < I_N$ : LED ON                          |

### Signal output: DC OK floating

|                        |   |
|------------------------|---|
| Status display         | $U_{OUT} > 0.9 \times U_N$ : "DC OK" LED green    |
| Note on status display | $U_{OUT} < 0.9 \times U_N$ : Flashing "DC OK" LED |

### Signal output: POWER BOOST, active

|                |                                      |
|----------------|--------------------------------------|
| Status display | $I_{OUT} > I_N$ : LED "BOOST" yellow |
|----------------|--------------------------------------|

## Electrical properties

|                  |      |
|------------------|------|
| Number of phases | 1.00 |
|------------------|------|

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|                                 |                         |
|---------------------------------|-------------------------|
| Insulation voltage input/output | 4 kV AC (type test)     |
|                                 | 2 kV AC (routine test)  |
| Insulation voltage output / PE  | 500 V DC (routine test) |
| Insulation voltage input / PE   | 3.5 kV AC (type test)   |
|                                 | 2 kV AC (routine test)  |

## Product properties

|                            |                     |
|----------------------------|---------------------|
| Product type               | Power supply        |
| Product family             | QUINT POWER         |
| MTBF (IEC 61709, SN 29500) | > 1433000 h (25 °C) |
|                            | > 820000 h (40 °C)  |
|                            | > 360000 h (60 °C)  |

## Insulation characteristics

|                     |   |
|---------------------|---|
| Protection class    | I |
| Degree of pollution | 2 |

## Dimensions

|        |        |
|--------|--------|
| Width  | 32 mm  |
| Height | 130 mm |
| Depth  | 125 mm |

## Installation dimensions

|                                  |               |
|----------------------------------|---------------|
| Installation distance right/left | 5 mm / 5 mm   |
| Installation distance top/bottom | 50 mm / 50 mm |

## Alternative assembly

|        |        |
|--------|--------|
| Width  | 122 mm |
| Height | 130 mm |
| Depth  | 35 mm  |

## Mounting

|                         |   |
|-------------------------|---|
| Assembly instructions   | alignable: $P_N \geq 50\%$ , 5 mm horizontally, 15 mm next to active components, 50 mm vertically<br>alignable: $P_N < 50\%$ , 0 mm horizontally, 40 mm vertically top, 20 mm vertically bottom |
| Mounting position       | horizontal DIN rail NS 35, EN 60715   |
| With protective coating | No  |

## Material specifications

|                      |   |
|----------------------|---|
| Housing material     | Metal   |
| Hood version         | Galvanized sheet steel, free from chrome (VI) |
| Side element version | Aluminum                                      |

## Environmental and real-life conditions

### Ambient conditions

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|  |  |
|--|--|
| Degree of protection                           | IP20   |
| Ambient temperature (operation)                | -25 °C ... 70 °C (> 60 °C Derating: 2,5 %/K)   |
| Ambient temperature (storage/transport)        | -40 °C ... 85 °C   |
| Maximum altitude                               | 5000 m   |
| Climatic class                                 | 3K3 (in acc. with EN 60721)  |
| Max. permissible relative humidity (operation) | ≤ 95 % (at 25 °C, non-condensing)  |
| Shock  | 18 ms, 30g, in each space direction (according to IEC 60068-2-27)                          |
| Vibration (operation)                          | < 15 Hz, amplitude ±2.5 mm (according to IEC 60068-2-6)<br>15 Hz ... 150 Hz, 2.3g, 90 min. |

## Standards and regulations

|  |  |
|--|--|
| Rail applications  | EN 50121-4                                   |
| Standard – Limitation of mains harmonic currents   | EN 61000-3-2                                 |
| Standard - Electrical safety   | IEC 61010-2-201 (SELV)                       |
| Standard - Equipment safety  | BG (design tested)                           |
| Standard - Approval for medical use  | IEC 60601-1, 2 x MOOP                        |
| Standard – Protection against shock currents, basic requirements for protective separation in electrical equipment | EN 50178                                     |
| Standard – Safety extra-low voltage  | IEC 61010-1 (SELV)<br>IEC 61010-2-201 (PELV) |
| Standard - Safe isolation  | IEC 61010-2-201                              |
| Standard - safety for equipment for measurement, control, and laboratory use                                       | IEC 61010-1                                  |
| Approval - requirement of the semiconductor industry with regard to mains voltage dips                             | SEMI F47-0706 Compliance Certificate         |
| DeviceNet approval   | DeviceNet™ Power Supply Conformance Tested   |

## Overvoltage category

|            |     |
|------------|-----|
| EN 62477-1 | III |
|------------|-----|

## Approvals

|                       |   |
|-----------------------|---|
| CSA                   | CAN/CSA-C22.2 No. 60950-1-07<br>CSA-C22.2 No. 107.1-01  |
| Shipbuilding approval | DNV GL (EMC A), ABS, LR, RINA, NK, BV   |
| UL approvals          | UL Listed UL 508<br>UL/C-UL Recognized UL 60950-1<br>UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D (Hazardous Location) |
| DeviceNet approval    | DeviceNet™ Power Supply Conformance Tested  |

## EMC data

|                                     |   |
|-------------------------------------|---|
| Low Voltage Directive               | Conformance with Low Voltage Directive 2014/35/EC |
| EMC requirements for noise emission | EN 61000-6-3<br>EN 61000-6-4                      |
| EMC requirements for noise immunity | EN 61000-6-1                                      |

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|                               |   |
|-------------------------------|---|
|                               | EN 61000-6-2                              |
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Noise emission                | EN 55011 (EN 55022)                       |

## Electrostatic discharge

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-2 |
|-----------------------|--------------|

## Electrostatic discharge

|                   |                     |
|-------------------|---------------------|
| Contact discharge | 8 kV (Test Level 4) |
| Discharge in air  | 8 kV (Test Level 3) |
| Comments          | Criterion A         |

## Electromagnetic HF field

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-3 |
|-----------------------|--------------|

## Electromagnetic HF field

|                     |                       |
|---------------------|-----------------------|
| Frequency range     | 80 MHz ... 1 GHz      |
| Test field strength | 20 V/m (Test Level 3) |
| Frequency range     | 1 GHz ... 2 GHz       |
| Test field strength | 10 V/m (Test Level 3) |
| Frequency range     | 2 GHz ... 3 GHz       |
| Test field strength | 10 V/m (Test Level 3) |
| Comments            | Criterion A           |

## Fast transients (burst)

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-4 |
|-----------------------|--------------|

## Fast transients (burst)

|          |                                    |
|----------|------------------------------------|
| Input    | 4 kV (Test Level 4 - asymmetrical) |
| Output   | 2 kV (Test Level 3 - asymmetrical) |
| Signal   | 2 kV (Test Level 4 - asymmetrical) |
| Comments | Criterion A                        |

## Surge voltage load (surge)

|                       |   |
|-----------------------|---|
| Standards/regulations | EN 61000-4-5  |
| Input                 | 2 kV (Test Level 3 - symmetrical)<br>4 kV (Test Level 4 - asymmetrical) |
| Output                | 1 kV (Test Level 2 - symmetrical)<br>2 kV (Test Level 3 - asymmetrical) |
| Signal                | 1 kV (Test Level 2 - asymmetrical)                                      |
| Comments              | Criterion A   |

## Conducted interference

|                       |              |
|-----------------------|--------------|
| Standards/regulations | EN 61000-4-6 |
|-----------------------|--------------|

## Conducted interference

|                 |                     |
|-----------------|---------------------|
| I/O/S           | asymmetrical        |
| Frequency range | 0.15 MHz ... 80 MHz |

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|          |                     |
|----------|---------------------|
| Comments | Criterion A         |
| Voltage  | 10 V (Test Level 3) |

## Emitted interference

|  |  |
|--|--|
| Standards/regulations                            | EN 61000-6-3   |
| Radio interference voltage in acc. with EN 55011 | EN 55011 (EN 55022) Class B, area of application: Industry and residential |
| Emitted radio interference in acc. with EN 55011 | EN 55011 (EN 55022) Class B, area of application: Industry and residential |

## Criteria

|             |  |
|-------------|--|
| Criterion A | Normal operating behavior within the specified limits.                               |
| Criterion B | Temporary impairment to operational behavior that is corrected by the device itself. |



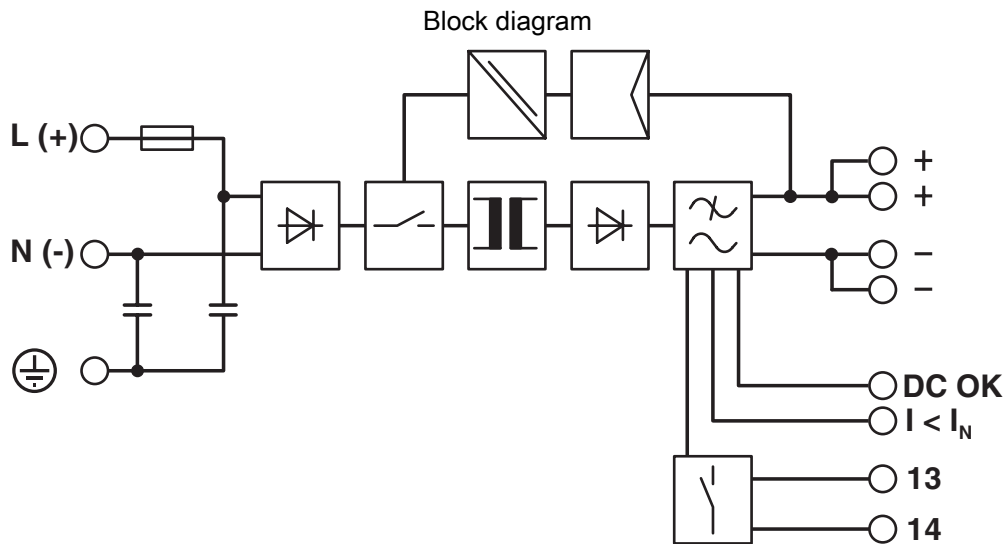
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## Drawings



# QUINT-PS/1AC/24DC/ 3.5 - Power supply unit



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2866747>



**cUL Recognized**  
Approval ID: FILE E 211944



**UL Recognized**  
Approval ID: FILE E 211944



**IECEE CB Scheme**  
Approval ID: SI-1865 A2



**EAC**  
Approval ID: EAC-Zulassung



**LR**  
Approval ID: LR22301698TA-02



**NK**  
Approval ID: TA24091M



**BV**  
Approval ID: 21004/C1 BV



**EAC**  
Approval ID: RU S-DE.BL08.W.00764



**UL Listed**  
Approval ID: FILE E 123528



**cUL Listed**  
Approval ID: FILE E 123528



**RINA**  
Approval ID: ELE333522XG

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## ABS

Approval ID: 23-2355407-PDA

## DeviceNet™

### DeviceNet

Approval ID: 10824/06.01.2010

## SEMI F47

Approval ID: SEMI F47



## EAC

Approval ID: RU S-DE.BL08.W.00764

## DNV

Approval ID: TAA000030X



## cCSAus

Approval ID: 1897767



## cUL Listed

Approval ID: FILE E 199827



## UL Listed

Approval ID: FILE E 199827

## cULus Recognized

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27040701 |
| ECLASS-12.0 | 27040701 |
| ECLASS-13.0 | 27040701 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002540 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121000 |
|-------------|----------|

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## 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) |
|-------------------------------------|----------------------|

### EF3.0 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 21.45 kg CO2e |
|---------|---------------|

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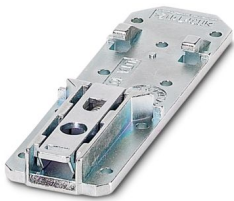
## Accessories

### UTA 107/30 - Mounting adapter

2320089

<https://www.phoenixcontact.com/us/products/2320089>

Universal DIN rail adapter



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### UWA 182/52 - Mounting adapter

2938235

<https://www.phoenixcontact.com/us/products/2938235>

Universal wall adapter for securely mounting the device in the event of strong vibrations. The device is screwed directly onto the mounting surface. The universal wall adapter is attached on the top/bottom.



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## QUINT-PS-ADAPTERS7/1 - Mounting adapter

2938196

<https://www.phoenixcontact.com/us/products/2938196>

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



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## QUINT-PS/FAN/4 - Fan

2320076

<https://www.phoenixcontact.com/us/products/2320076>



The fan for QUINT-PS/1AC and .../3AC can be mounted without the need for tools or other accessories. By using the fan, optimum cooling is ensured at high ambient temperatures or if the mounting position is rotated.

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## QUINT-DIODE/12-24DC/2X20/1X40 - Redundancy module

2320157

<https://www.phoenixcontact.com/us/products/2320157>



DIN rail diode module 12-24 V DC/2x20 A or 1x40 A. Uniform redundancy up to the consumer.

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## QUINT-ORING/24DC/2X10/1X20 - Redundancy module, with protective coating

2320173

<https://www.phoenixcontact.com/us/products/2320173>



Active QUINT redundancy module for DIN rail mounting with Auto Current Balancing ACB technology and monitoring functions, input: 24 V DC, output: 24 V DC/2 x 10 A or 1 x 20 A, including mounted UTA 107/30 universal DIN rail adapter



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## TRIO-DIODE/12-24DC/2X10/1X20 - Redundancy module

2866514

<https://www.phoenixcontact.com/us/products/2866514>



Redundancy module with function monitoring, 12 ... 24 V DC, 2x 10 A, 1x 20 A

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## PLT-SEC-T3-230-FM-UT - Type 3 surge protection device

2907919

<https://www.phoenixcontact.com/us/products/2907919>



Type 2/3 surge protection, consisting of protective plug and base element with screw connection. For single-phase power supply network with integrated status indicator and remote signaling. Nominal voltage: 230 V AC/DC

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## PLT-SEC-T3-24-FM-UT - Type 3 surge protection device

2907916

<https://www.phoenixcontact.com/us/products/2907916>



Type 3 surge protection, consisting of protective plug and base element, with integrated status indicator and remote signaling for single-phase power supply networks. Nominal voltage: 24 V AC/DC

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