

Power supply unit - QUINT-PS/1AC/24DC/20



2866776

<https://www.phoenixcontact.com/il/products/2866776>

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Primary-switched power supply unit, QUINT POWER, Screw connection, DIN rail mounting, SFB Technology (Selective Fuse Breaking), input: 1-phase, output: 24 V DC / 20 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

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Commercial Data

| | |
|--------------------------------------|---------------------|
| Item number | 2866776 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product Key | CMPQ13 |
| Catalog Page | Page 159 (C-6-2015) |
| GTIN | 4046356113557 |
| Weight per Piece (including packing) | 2,103 g |
| Weight per Piece (excluding packing) | 1,608 g |
| Customs tariff number | 85044030 |
| Country of origin | TH |

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 |
| | 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 |
| Inrush current integral (I^2t) | < 3.2 A ² s |
| AC frequency range | 45 Hz ... 65 Hz |
| Frequency range DC | 0 Hz |
| Mains buffering time | > 32 ms (120 V AC) |
| | > 32 ms (230 V AC) |
| Current consumption | 5.1 A (120 V AC) |
| | 2.3 A (230 V AC) |
| | 4.9 A (110 V DC) |
| | 2.4 A (220 V DC) |
| Nominal power consumption | 569 VA |
| Protective circuit | Transient surge protection; Varistor |
| Power factor (cos phi) | 0.89 |
| Typical response time | < 0.6 s |
| Input fuse | 12 A (slow-blow, internal) |
| Permissible backup fuse | B10 B16 AC: |
| Permissible DC backup fuse | DC: Connect a suitable fuse upstream |
| Recommended breaker for input protection | 10 A ... 16 A (AC: Characteristics B, C, D, K) |
| Discharge current to PE | < 3.5 mA |

Output data

| | |
|--|---|
| Efficiency | > 93 % (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) | 20 A (-25 °C ... 60 °C, U_{OUT} = 24 V DC) |
| POWER BOOST (I_{Boost}) | 26 A (-25 °C ... 40 °C permanent, U_{OUT} = 24 V DC) |
| Selective Fuse Breaking (I_{SFB}) | 120 A (12 ms) |
| Magnetic circuit breaker tripping | B2 / B4 / B6 / B10 / B16 / C2 / C4 / C6 |
| Derating | 60 °C ... 70 °C (2.5%/K) |
| Feedback voltage resistance | max. 35 V DC |
| Protection against overvoltage at the output (OVP) | < 35 V DC |

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| | |
|-----------------------------------|---|
| Control deviation | < 1 % (change in load, static 10 % ... 90 %) |
| | < 2 % (change in load, dynamic 10 % ... 90 %) |
| | < 0.1 % (change in input voltage ± 10 %) |
| Residual ripple | < 30 mV _{PP} (with nominal values) |
| Short-circuit-proof | yes |
| Output power | 480 W |
| Maximum no-load power dissipation | 8 W |
| Power loss nominal load max. | 40 W |
| Rise time | < 0.1 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 | ≤ 20 mA (short-circuit-proof) |
| Continuous load current | ≤ 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 |
| | 24 V DC |
| Maximum inrush current | 0.5 A |
| | 1 A |
| Continuous load current | ≤ 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 | 20 mA (short-circuit-proof) |
| Continuous load current | ≤ 20 mA |

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 | ≤ 20 mA (short-circuit-proof) |
| Continuous load current | ≤ 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 |
| | 24 V DC |
| Maximum inrush current | 0.5 A |
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|-------------------------|-------------------------------|
| 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 | 20 mA (short-circuit-proof) |
| Continuous load current | ≤ 20 mA |

Signal: DC OK active

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| Output description | $U_{OUT} > 0.9 \times U_N$: High signal |
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| Maximum switching voltage | 30 V AC |
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| Maximum inrush current | 0.5 A |
| | 1 A |
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Signal: POWER BOOST, active

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| 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 | 20 mA (short-circuit-proof) |
| Continuous load current | ≤ 20 mA |

Connection data

Input

| | |
|---------------------------------------|---------------------|
| Connection method | Screw connection |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 6 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 4 mm ² |
| Conductor cross section AWG min. | 18 |
| Conductor cross section AWG max. | 10 |
| Stripping length | 7 mm |
| Screw thread | M4 |
| Tightening torque, min | 0.5 Nm |
| Tightening torque max | 0.6 Nm |

Output

| | |
|------------------------------------|---------------------|
| Connection method | Screw connection |
| Conductor cross section solid min. | 0.2 mm ² |

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| | |
|---------------------------------------|---------------------|
| Conductor cross section solid max. | 6 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 4 mm ² |
| Conductor cross section AWG min. | 12 |
| Conductor cross section AWG max. | 10 |
| Stripping length | 7 mm |
| Screw thread | M4 |
| Tightening torque, min | 0.5 Nm |
| Tightening torque max | 0.6 Nm |

Signal

| | |
|---------------------------------------|---------------------|
| Connection method | Screw connection |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 6 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 4 mm ² |
| Conductor cross section AWG min. | 18 |
| Conductor cross section AWG max. | 10 |
| Screw thread | M4 |
| Tightening torque, min | 0.5 Nm |
| Tightening torque max | 0.6 Nm |

LED signaling

| | |
|--------------------|-------------------------|
| Types of signaling | LED |
| | Active switching output |
| | Relay contact |

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 |
| 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 |
| MTBF (IEC 61709, SN 29500) | > 900000 h (25 °C) |
| | > 520000 h (40 °C) |
| | > 235000 h (60 °C) |

Insulation characteristics

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

Dimensions

| | |
|--------|--------|
| Width | 90 mm |
| Height | 130 mm |
| Depth | 125 mm |

Alternative assembly

| | |
|--------|--------|
| Width | 122 mm |
| Height | 130 mm |
| Depth | 93 mm |

Mounting

| | |
|-----------------------|---|
| Mounting type | DIN rail mounting |
| Assembly instructions | alignable: $P_N \geq 50\%$, 5 mm horizontally, 15 mm next to active components, 50 mm vertically alignable: $P_N < 50\%$, 0 mm horizontally, 40 mm vertically top, 20 mm vertically bottom |
| Mounting position | horizontal DIN rail NS 35, EN 60715 |

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

| | |
|--|---|
| 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 |
| Ambient temperature (start-up type tested) | -40 °C |
| Maximum altitude | 6000 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) |

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| | |
|--|---------------------------------|
| | 15 Hz ... 150 Hz, 2.3g, 90 min. |
|--|---------------------------------|

Standards and regulations

| | |
|--|--------------------------------------|
| Rail applications | EN 50121-4 |
| | EN 50121-3-2 |
| HART FSK Physical Layer Test Specification Compliance | Output voltage U_{Out} compliant |
| 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 – Safety extra-low voltage | IEC 61010-1 (SELV) |
| | 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 |

Overvoltage category

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

Approval data

| | |
|-----------------------|--|
| CSA | CAN/CSA-C22.2 No. 60950-1-07 |
| | CSA-C22.2 No. 107.1-01 |
| Shipbuilding approval | DNV GL (EMC B, only with upstream filter), ABS, LR, RINA, NK, BV |
| SIQ | BG (type approved) |
| UL approvals | UL Listed UL 508 |
| | UL/C-UL Recognized UL 60950-1 |
| | UL ANSI/ISA-12.12.01 Class I, Division 2, Groups A, B, C, D (Hazardous Location) |

Conformity/Approvals

| | |
|----------------------------------|---|
| SIL in accordance with IEC 61508 | 0 |
|----------------------------------|---|

EMC data

| | |
|-------------------------------------|---|
| Low Voltage Directive | Conformance with Low Voltage Directive 2014/35/EC |
| 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 (EN 55022) |
| Noise immunity | EN 61000-6-2 |

Electrostatic discharge

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

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Electrostatic discharge

| | |
|-------------------|----------------------|
| Contact discharge | 8 kV (Test Level 4) |
| Discharge in air | 15 kV (Test Level 4) |
| 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) 4 kV (Test Level 4 - asymmetrical) |
| Output | 1 kV (Test Level 2 - symmetrical) 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 |
| Comments | Criterion A |
| Voltage | 10 V (Test Level 3) |

Emitted interference

| | |
|-----------------------|--------------|
| Standards/regulations | EN 61000-6-3 |
|-----------------------|--------------|

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| | |
|--|--|
| 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 |
| 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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Approvals



CSA



cUL Recognized



UL Recognized



IECEE CB Scheme



EAC



DNV GL



LR



NK



BV



EAC



UL Listed

BSH



RINA

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ABS



Type approved

SEMI F47



EAC



cUL Listed



UL Listed

cULus Recognized

cULus Listed

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Classifications

ECLASS

| | |
|---------------|----------|
| ECLASS-9.0 | 27040701 |
| ECLASS-10.0.1 | 27040701 |
| ECLASS-11.0 | 27040701 |

ETIM

| | |
|----------|----------|
| ETIM 8.0 | EC002540 |
|----------|----------|

UNSPSC

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

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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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Accessories

DIN rail adapter

DIN rail adapter - UTA 107 - 2853983

<https://www.phoenixcontact.com/il/products/2853983>

Universal DIN rail adapter, for screwing on switchgear



Redundancy module, with protective coating

Redundancy module, with protective coating - QUINT-ORING/24DC/2X20/1X40 - 2320186

<https://www.phoenixcontact.com/il/products/2320186>



Active QUINT redundancy module for DIN rail mounting with ACB (Auto Current Balancing) Technology and monitoring functions, input: 24 V DC/2x 20 A, output: 24 V DC/1 x 40 A, including mounted UTA 107/30 universal DIN rail adapter

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Fan

Fan - QUINT-PS/FAN/4 - 2320076

<https://www.phoenixcontact.com/il/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.

Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - CB TM1 1A SFB P - 2800836

<https://www.phoenixcontact.com/il/products/2800836>



Thermomagnetic device circuit breaker, 1-pos., tripping characteristic SFB, 1 changeover contact, plug for base element.

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Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - CB TM1 2A SFB P - 2800837

<https://www.phoenixcontact.com/il/products/2800837>



Thermomagnetic device circuit breaker, 1-pos., tripping characteristic SFB, 1 changeover contact, plug for base element.

Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - CB TM1 3A SFB P - 2800838

<https://www.phoenixcontact.com/il/products/2800838>



Thermomagnetic device circuit breaker, 1-pos., tripping characteristic SFB, 1 changeover contact, plug for base element.

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Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - CB TM1 4A SFB P - 2800839

<https://www.phoenixcontact.com/il/products/2800839>



Thermomagnetic device circuit breaker, 1-pos., tripping characteristic SFB, 1 changeover contact, plug for base element.

Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - CB TM1 5A SFB P - 2800840

<https://www.phoenixcontact.com/il/products/2800840>



Thermomagnetic device circuit breaker, 1-pos., tripping characteristic SFB, 1 changeover contact, plug for base element.

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Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - CB TM1 6A SFB P - 2800841

<https://www.phoenixcontact.com/il/products/2800841>



Thermomagnetic device circuit breaker, 1-pos., tripping characteristic SFB, 1 changeover contact, plug for base element.

Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - CB TM1 8A SFB P - 2800842

<https://www.phoenixcontact.com/il/products/2800842>



Thermomagnetic device circuit breaker, 1-pos., tripping characteristic SFB, 1 changeover contact, plug for base element.

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Thermomagnetic device circuit breaker

Thermomagnetic device circuit breaker - CB TM1 10A SFB P - 2800843

<https://www.phoenixcontact.com/il/products/2800843>



Thermomagnetic device circuit breaker, 1-pos., tripping characteristic SFB, 1 changeover contact, plug for base element.

Interference filter

Interference filter - ME-MAX-NEF/QUINT20A - 2319919

<https://www.phoenixcontact.com/il/products/2319919>



Filter for adherence to the EMC category EMC1 in shipbuilding for the QUINT-PS/1AC/24DC/20 power supply

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Redundancy module

Redundancy module - QUINT-DIODE/12-24DC/2X20/1X40 - 2320157

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



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

Type 3 surge protection device

Type 3 surge protection device - PLT-SEC-T3-230-FM-UT - 2907919

<https://www.phoenixcontact.com/il/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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Type 3 surge protection device

Type 3 surge protection device - PLT-SEC-T3-24-FM-UT - 2907916

<https://www.phoenixcontact.com/il/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

Mounting adapter

Mounting adapter - UWA 182/52 - 2938235

<https://www.phoenixcontact.com/il/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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