

Power supply unit - QUINT4-PS/1AC/24DC/1.3/PT - 2909575

Note que os dados aqui indicados foram obtidos do catálogo online. Para informações e dados completos, consulte a documentação do usuário. Aplicam-se as Condições Gerais de Utilização para downloads da Internet. (<http://phoenixcontact.pt/download>)



Primary-switched power supply unit, QUINT POWER, Push-in technology, DIN rail mounting, input: 1-phase, output: 24 V DC / 1.3 A

Descrição do artigo


In the power range of up to 100 W, QUINT POWER provides superior system availability in the smallest size. Preventative function monitoring and exceptional power reserves are available for applications in the low-power range.

Vantagens para si

- Starting of heavy loads with dynamic boost
- Preventive function monitoring indicates critical operating states before errors occur
-
- Space savings in the control cabinet, thanks to a narrow, slim-line design
-



Dados comerciais

| | |
|--|---|
| Quantidade de embalagem (VPE) | 1 stk |
| GTIN |  4 055626 356471 |
| GTIN | 4055626356471 |
| Peso por unidade (exclusive embalagem) | 248,450 GRM |
| Número do imposto alfandegário | 85044030 |
| País de origem | Alemanha |

Dados técnicos

Dimensions

| | |
|--------|---------|
| Width | 22.5 mm |
| Height | 106 mm |
| Depth | 90 mm |

Ambient conditions

| | |
|----------------------|------|
| Degree of protection | IP20 |
|----------------------|------|

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Dados técnicos

Ambient conditions

| | |
|--|--|
| Ambient temperature (operation) | -25 °C ... 70 °C (> 60 °C Derating: 2.5 %/K) |
| Ambient temperature (start-up type tested) | -40 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Max. permissible relative humidity (operation) | ≤ 95 % (at 25 °C, non-condensing) |
| Climatic class | 3K3 (in acc. with EN 60721) |
| Degree of pollution | 2 |
| Installation height | ≤ 5000 m (> 2000 m, observe derating) |

Input data

| | |
|------------------------------|--|
| Input voltage range | 100 V AC ... 240 V AC -15 % ... +10 % 110 V DC ... 250 V DC -20 % ... +40 % |
| Dielectric strength maximum | 300 V AC 30 s |
| Discharge current to PE | < 0.25 mA (264 V AC, 60 Hz) |
| Current consumption | 0.46 A (100 V AC) 0.37 A (120 V AC) 0.2 A (230 V AC) 0.2 A (240 V AC) |
| Nominal power consumption | 37 VA |
| Inrush surge current | typ. 14 A (at 25 °C) |
| Mains buffering | typ. 43 ms (120 V AC) typ. 43 ms (230 V AC) |
| Input fuse | 3.15 A (slow-blow, internal) |
| Type of protection | Transient surge protection |
| Protective circuit/component | Varistor |

Output data

| | |
|---|---|
| Nominal output voltage | 24 V DC |
| Setting range of the output voltage (U_{Set}) | 24 V DC ... 28 V DC (constant capacity) |
| Nominal output current (I_N) | 1.3 A |
| Static Boost ($I_{Stat.Boost}$) | 1.625 A (≤ 40 °C) |
| Dynamic Boost ($I_{Dyn.Boost}$) | 2.6 A (≤ 60 °C (5 s)) |
| Derating | > 60 °C (2.5%/K) |
| Connection in parallel | Yes, for redundancy and increased capacity |
| Connection in series | yes |
| Feedback resistance | ≤ 35 V DC |
| Protection against surge voltage on the output | ≤ 32 V DC |
| Control deviation | < 0.5 % (Static load change 10 % ... 90 %) < 2 % (Dynamic load change 10 % ... 90 %, (10 Hz)) < 0.1 % (change in input voltage ±10 %) |
| Residual ripple | < 40 mV _{PP} (with nominal values) |
| Output power | 30 W |

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Dados técnicos

Output data

| | |
|--|--------------------|
| Typical response time | 500 ms |
| Maximum power dissipation in no-load condition | < 0.4 W (230 V AC) |
| | < 0.4 W (120 V AC) |
| Power loss nominal load max. | < 3.7 W (120 V AC) |
| | < 3.1 W (230 V AC) |

General

| | |
|---------------------------------|------------------------|
| Net weight | 0.188 kg |
| Efficiency | typ. 89.2 % (120 V AC) |
| | typ. 90.7 % (230 V AC) |
| Insulation voltage input/output | 4 kV AC (type test) |
| | 3 kV AC (routine test) |
| Protection class | II |
| Degree of protection | IP20 |
| MTBF (IEC 61709, SN 29500) | > 1904000 h (25 °C) |
| | > 1107000 h (40 °C) |
| | > 486000 h (60 °C) |
| Assembly instructions | DIN rail mounting |

Connection data, input

| | |
|---------------------------------------|---------------------|
| Connection method | Push-in technology |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 14 |
| Stripping length | 10 mm |

Connection data, output

| | |
|---------------------------------------|---------------------|
| Connection method | Push-in technology |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 14 |
| Stripping length | 10 mm |

Connection data for signaling

| | |
|------------------------------------|---------------------|
| Connection method | Push-in technology |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |

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Dados técnicos

Connection data for signaling

| | |
|---------------------------------------|---------------------|
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 2.5 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 14 |
| Stripping length | 10 mm |

Standards and Regulations

| | |
|--|--|
| Electromagnetic compatibility | Conformance with EMC Directive 2014/30/EU |
| Standards/regulations | EN 61000-4-2 |
| Contact discharge | 4 kV (Test Level 2) |
| Standards/regulations | EN 61000-4-3 |
| Frequency range | 80 MHz ... 1 GHz |
| Test field strength | 10 V/m (Test Level 3) |
| Frequency range | 1.4 GHz ... 2 GHz |
| Test field strength | 3 V/m (Test Level 2) |
| Standards/regulations | EN 61000-4-4 |
| Comments | Criterion B |
| Standards/regulations | EN 61000-4-6 |
| Frequency range | 0.15 MHz ... 80 MHz |
| Voltage | 10 V (Test Level 3) |
| Conducted noise emission | EN 55016 EN 61000-6-4 (Class A) |
| Standards/regulations | EN 61000-4-8 |
| | EN 61000-4-11 |
| | EN 61000-4-9 |
| | EN 61000-4-12 |
| | EN 61000-4-16 |
| Standard - Safety of transformers | EN 61558-2-16 |
| Standard - Electrical safety | IEC 61010-2-201 (SELV) |
| Standard - power supply devices for low voltage with DC output | EN 61204-3 |
| Standard – Safety extra-low voltage | IEC 61010-1 (SELV) |
| | IEC 61010-2-201 (PELV) |
| Standard - Safe isolation | IEC 61558-2-16 |
| | IEC 61010-2-201 |
| Standard – Limitation of mains harmonic currents | EN 61000-3-2 |
| UL approvals | UL Listed UL 61010-1 |
| | UL Listed UL 61010-2-201 |
| | UL 1310 Class 2 Power Units |
| | ANSI/UL 121201 Class I, Division 2, Groups A, B, C, D (Hazardous Location) |
| Shock | 18 ms, 30g, in each space direction (according to IEC 60068-2-27) |
| Vibration (operation) | < 15 Hz, ±2.5 mm amplitude; 15 Hz ... 100 Hz: 2.3 g 90 Min. (in accordance with IEC 60068-2-6) |

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Dados técnicos

Standards and Regulations

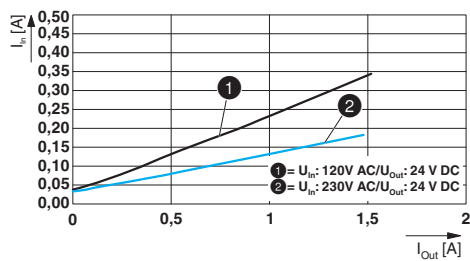
| | |
|-----------------------------------|----------------------|
| Overvoltage category (EN 61010-1) | II |
| Overvoltage category (EN 62477-1) | III (≤ 2000 m) |

Environmental Product Compliance

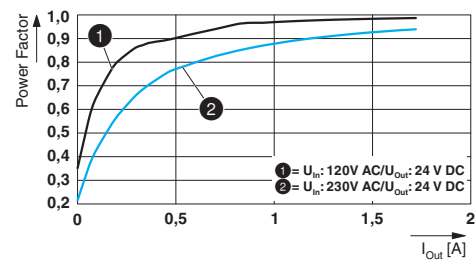
| | |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 25; |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Desenhos

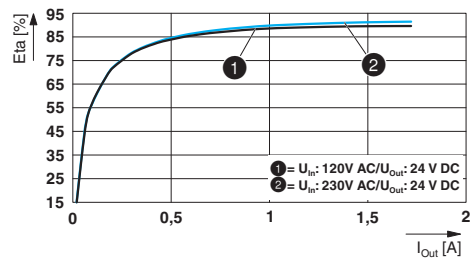
Diagram



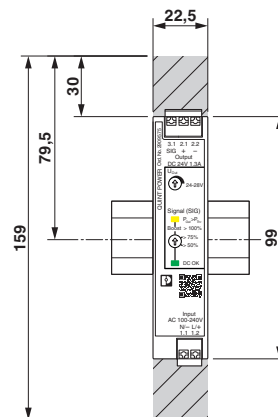
Diagram



Diagram

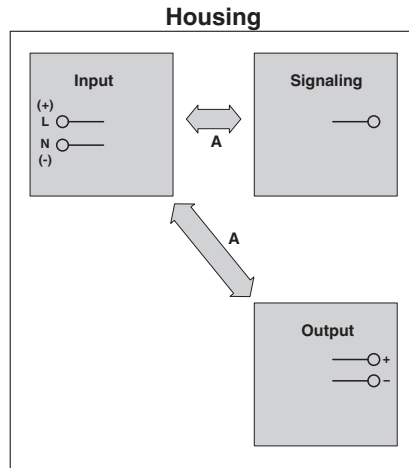


Dimensional drawing

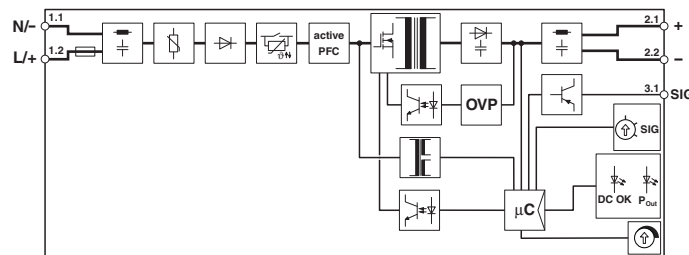


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Schematic diagram



Block diagram



Classificações

eCl@ss

| | |
|------------|----------|
| eCl@ss 5.1 | 27242213 |
| eCl@ss 6.0 | 27049000 |
| eCl@ss 7.0 | 27049002 |
| eCl@ss 8.0 | 27049002 |
| eCl@ss 9.0 | 27040701 |

ETIM

| | |
|----------|----------|
| ETIM 6.0 | EC002540 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 13.2 | 39121004 |
|-------------|----------|

Certificações

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DNV GL / UL Listed / IECCE CB Scheme / cUL Listed / EAC / cULus Listed

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Certificações

Certificações Ex

UL Listed / cUL Listed / cULus Listed

Detalhes da certificação

| | | | |
|--------|--|---|------------|
| DNV GL | | http://exchange.dnv.com/tari/ | TAA00001SN |
|--------|--|---|------------|

| | | | |
|-----------|--|---|---------------|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 123528 |
|-----------|--|---|---------------|

| | | | |
|-----------------|--|---|---------|
| IECEE CB Scheme | | http://www.iecee.org/ | SI-6241 |
|-----------------|--|---|---------|

| | | | |
|------------|--|---|---------------|
| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 123528 |
|------------|--|---|---------------|

| | | | |
|-----|--|--|--------------------------|
| EAC | | | RU C- DE.A*30.B.01082 |
|-----|--|--|--------------------------|

| | | | |
|--------------|--|--|--|
| cULus Listed | | | |
|--------------|--|--|--|

Acessórios

Acessórios

Device circuit breakers

Electronic device circuit breaker - CBMC E4 24DC/1-10A NO - 2906032



Multi-channel electronic device circuit breaker for protecting four loads at 24 V DC in the event of overload and short circuit. With electronic locking of the set nominal currents. For installation on DIN rails.

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Acessórios

Electronic device circuit breaker - CBMC E4 24DC/1-4A NO - 2906031



Multi-channel electronic device circuit breaker for protecting four loads at 24 V DC in the event of overload and short circuit. With electronic locking of the set nominal currents. For installation on DIN rails.

Electronic device circuit breaker - CBMC E4 24DC/1-4A NO-C - 2908713



Multi-channel electronic device circuit breaker that can be preconfigured, for protecting four loads at 24 V DC in the event of overload and short circuit. With electronic locking of the set nominal currents. For installation on DIN rails.

Device protection

Type 3 surge protection device - PLT-SEC-T3-230-FM-PT - 2907928



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

Type 3 surge protection device - PLT-SEC-T3-24-FM-PT - 2907925



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.

Screwdriver tools

Screwdriver - SF-SL 0,4X2,0-60 - 1212546



Screwdriver, flat bladed, size: 0.4 x 2.0 x 60 mm, 2-component grip, with non-slip grip
