

Buffer module - QUINT4-BUFFER/24DC/20 - 2907913

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QUINT buffer module with maintenance-free capacitor-based energy storage for DIN rail mounting, input: 24 V DC, output: 24 V DC/20 A, including mounted UTA 107 universal DIN rail adapter.

Product Description


Bridge failures lasting several seconds with the buffer modules from the QUINT range for DIN rails. The QUINT BUFFER combines an electronic switch-over unit and maintenance-free, capacitor-based energy storage in the same housing.

Why buy this product

- Space savings, thanks to the compact design
- Maintenance-free due to electrolytic capacitors
- Thanks to soft start, can also be used with power supplies in the low power range



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 STK |
| GTIN |  4 055626 309040 |
| GTIN | 4055626309040 |

Technical data

Dimensions

| | |
|--------|--------|
| Width | 56 mm |
| Height | 130 mm |
| Depth | 125 mm |

Ambient conditions

| | |
|--|--|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -25 °C ... 70 °C (> 40 °C Derating: 1 %/K / > 60 °C Derating: 2.5 %/K) |
| Ambient temperature (start-up type tested) | -40 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Max. permissible relative humidity (operation) | ≤ 95 % |
| Climatic class | 3K3 (in acc. with EN 60721) |

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Ambient conditions

| | |
|---------------------|----------|
| Degree of pollution | 2 |
| Installation height | ≤ 4000 m |

Input data

| | |
|--|--------------------------|
| Input voltage | 24 V DC (SELV) |
| Input voltage range | 22.5 V DC ... 30 V DC |
| Current consumption (maximum) | 26 A (max.) |
| Current consumption (idle) | 0.2 A (No-load) |
| Current consumption (charging process) | 0.6 A (charging process) |
| Fixed connect threshold | < 22 V DC |

Output data

| | |
|--|--|
| Nominal output voltage | 24 V DC (depending on the input voltage) |
| Nominal output current (I _N) | 20 A |
| Static Boost (I _{Stat.Boost}) | 25 A |
| Connection in parallel | no |
| Connection in series | No |
| Power loss nominal load max. | < 6 W |

General

| | |
|----------------------------|---|
| IQ technology | no |
| Net weight | 1 kg |
| Memory medium | Electrolytic capacitor |
| Efficiency | > 98 % (with charged energy storage device) |
| Protection class | Special application (SELV input voltage, hazardous voltages are generated in the device). |
| Degree of protection | IP20 |
| MTBF (IEC 61709, SN 29500) | 2497464 h (40 °C) |
| Mounting position | horizontal DIN rail NS 35, EN 60715 |
| Assembly instructions | alignable: horizontally 0 mm, vertically 50 mm |

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. | 30 |
| Conductor cross section AWG max. | 10 |
| Stripping length | 8 mm |

Connection data, output

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

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Connection data, output

| | |
|---------------------------------------|---------------------|
| 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. | 30 |
| Conductor cross section AWG max. | 10 |
| Stripping length | 8 mm |

Signaling

| | |
|---------------------------------------|---------------------------------------|
| Signalization designation | U _{in} OK |
| Output name | Electronic relay (photorelay) |
| Output description | floating 13/14 |
| Output voltage | 30 V DC |
| Continuous load current | 200 mA |
| Status display | LED |
| Conductor cross section solid min. | 0.2 mm ² |
| Conductor cross section solid max. | 1.5 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 1.5 mm ² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 16 |
| Signalization designation | Ready |
| Output name | Transistor output, active |
| Output voltage | 24 V (U _N - 2 V (typical)) |
| Continuous load current | 20 mA |
| Status display | LED |
| Signalization designation | Reference potential for Ready |

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 |
| 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 |
| Low Voltage Directive | Conformance with Low Voltage Directive 2014/35/EC |
| Standard - Electrical safety | IEC 60950-1/VDE 0805 (SELV) |
| UL approvals | UL Listed UL 508 |

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Standards and Regulations

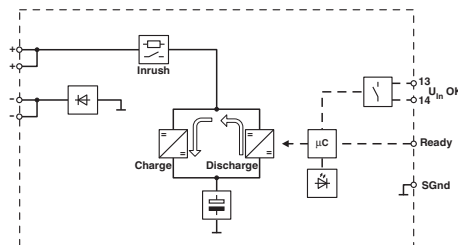
| | |
|-----------------------------------|-------------------------------|
| | UL/C-UL Recognized UL 60950-1 |
| Overvoltage category (EN 60950-1) | I |

Environmental Product Compliance

| | |
|------------|---|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 25; |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Block diagram



Approvals

Approvals

Approvals

UL Recognized / UL Listed / cUL Recognized / cUL Listed / EAC / cULus Listed

Ex Approvals

UL Listed / cUL Listed / cULus Listed


Approval details


| | | | |
|---------------|--|---|---------------|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 211944 |
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| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 123528 |
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| cUL Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 123528 |
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| EAC |  | | RU C- DE.A*30.B.01082 |
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| cULus Listed |  | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | |
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