

## Buffer module - QUINT4-CAP/24DC/5/4KJ - 2320539

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QUINT buffer module with maintenance-free double-layer capacitor-based energy storage for DIN rail mounting, input: 24 V DC, output: 24 V DC/5 A/4 KJ, including mounted UTA 107 universal DIN rail adapter.

### Product Description

The maintenance-free QUINT CAP buffer module is ideal for cyclical failures lasting up to 30 seconds. It combines an electronic switch-over unit and maintenance-free, capacitor-based energy storage in the same housing. The USB interface makes it convenient to shut down your PC.

### Why buy this product

- Convenient shutdown of PCs
- Maintenance-free with a long service life
- Space savings, thanks to the compact design
- Long buffer time, thanks to high memory capacity
- Lockable USB interface for connecting to industrial PCs, for example



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 246918
GTIN	4055626246918
Weight per Piece (excluding packing)	1,474.000 g
Custom tariff number	85044030
Country of origin	China
Note	Made to Order (non-returnable)

### Technical data

#### Dimensions

Width	94 mm
Height	130 mm
Depth	125 mm

#### Ambient conditions

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## Technical data

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C (> 40 °C Derating: 1 %/K)
Ambient temperature (start-up type tested)	-40 °C
Ambient temperature (storage/transport)	-40 °C ... 60 °C
Max. permissible relative humidity (operation)	≤ 95 %
Climatic class	3K3 (in acc. with EN 60721)
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)	7 A
Current consumption (idle)	0.1 A
Current consumption (charging process)	0.8 A
Fixed connect threshold	< 22 V DC

### Output data

Nominal output voltage	24 V DC
Nominal output current (I <sub>N</sub> )	5 A
Static Boost (I <sub>Stat.Boost</sub> )	6.25 A
Connection in parallel	no
Connection in series	No

### General

IQ technology	no
Net weight	1.3 kg
Memory medium	Dual layer capacitor
Efficiency	> 97 % (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)	1301923 h (40 °C)
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontally 0 mm, vertically 50 mm

### Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid 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.	30

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## Technical data

### Connection data, input

Conductor cross section AWG max.	12
Stripping length	6.5 mm

### Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid 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.	30
Conductor cross section AWG max.	12
Stripping length	6.5 mm

### Signaling

Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	1.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	1.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	16

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Standard - Electrical safety	IEC 60950-1/VDE 0805 (SELV)
UL approvals	UL Listed UL 508
	UL/C-UL Recognized UL 60950-1

## Drawings

Block diagram

