

Buffer module - QUINT4-BUFFER/24DC/40 - 2908283

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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/40 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 309200
GTIN	4055626309200
Weight per Piece (excluding packing)	1,328.000 g
Custom tariff number	85044030
Country of origin	China

Technical data

Dimensions

Width	72 mm
Height	130 mm
Depth	125 mm

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 70 °C (> 40 °C Derating: 0.56 %/K / > 60 °C Derating: 2.5 %/K)
Ambient temperature (start-up type tested)	-40 °C

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Technical data

Ambient conditions

Ambient temperature (storage/transport)	-40 °C ... 70 °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)	46 A
Current consumption (idle)	0.2 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 _N)	40 A
Static Boost (I _{Stat.Boost})	45 A
Connection in parallel	no
Connection in series	No

General

IQ technology	no
Net weight	1.2 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)	2813895 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.	0.5 mm ²
Conductor cross section solid max.	16 mm ²
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	16 mm ²
Conductor cross section AWG min.	10
Conductor cross section AWG max.	6
Stripping length	10 mm

Connection data, output

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Technical data

Connection data, output

Connection method	Screw connection
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	16 mm ²
Conductor cross section flexible min.	0.5 mm ²
Conductor cross section flexible max.	16 mm ²
Conductor cross section AWG min.	10
Conductor cross section AWG max.	6
Stripping length	10 mm

Signaling

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

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

