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.

Your advantages

- 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 pc
GTIN	4 055626 309040
GTIN	4055626309040
Weight per Piece (excluding packing)	1,060.000 g
Custom tariff number	85322900
Country of origin	China

Technical data

Dimensions

Width	56 mm
Height	130 mm
Depth	125 mm
Installation distance right/left	0 mm / 0 mm

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Dimensions

Installation distance top/bottom	50 mm / 50 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)
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 backup 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)
MTBF (IEC 61709, SN 29500)	2497464 h (40 °C)
Degree of protection	IP20
Protection class	Special application (SELV input voltage, hazardous voltages are generated in the device).
Mounting position	horizontal DIN rail NS 35, EN 60715
Assembly instructions	alignable: horizontally 0 mm, vertically 50 mm

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Connection data, input

Connection method	Screw connection
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	6 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	4 mm²
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 mm²
Conductor cross section solid max.	6 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	4 mm²
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 mm²
Conductor cross section solid max.	1.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section flexible max.	1.5 mm²
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

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Standards

EMC requirements for noise immunity	EN 61000-6-1
	EN 61000-6-2
EMC requirements for noise emission	EN 61000-6-3
	EN 61000-6-4
Standard - Electrical safety	IEC 60950-1/VDE 0805 (SELV)

Conformance/approvals

UL approvals	UL Listed UL 508
	UL/C-UL Recognized UL 60950-1

EMC data

Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Noise emission	EN 55016
	EN 61000-6-3
Electrostatic discharge	EN 61000-4-2
Contact discharge	6 kV (Test Level 3)
Discharge in air	8 kV (Test Level 3)
Electromagnetic HF field	EN 61000-4-3
Frequency range	80 MHz ... 6 GHz
Test field strength	10 V/m
Comments	Criterion A
Fast transients (burst)	EN 61000-4-4
Input	2 kV (Test Level 3 - asymmetrical)
Output	2 kV (Test Level 3 - asymmetrical)
Signal	2 kV (Test Level 3 - asymmetrical)
Comments	Criterion A
Input	1 kV (Test Level 2 - symmetrical)
	2 kV (Test Level 3 - 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	EN 61000-4-6
Frequency range	0.15 MHz ... 80 MHz
Voltage	10 V
Comments	Criterion A
Criterion A	Normal operating behavior within the specified limits.

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EMC data

Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

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”