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

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)

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

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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 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

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

Technical data

Connection data, output

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

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

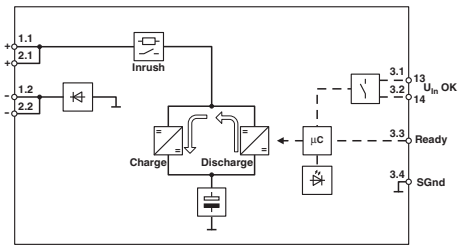
	UL/C-UL Recognized UL 60950-1
Overvoltage category (EN 60950-1)	I

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

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

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approval details

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

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 211944

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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 211944
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 Recognized			
cULus Listed			

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