

2908283

https://www.phoenixcontact.com/us/products/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.

### 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

#### Commercial Data

Item number	2908283
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CM21
Product Key	CMUIE3
Catalog Page	Page 345 (C-4-2019)
GTIN	4055626309200
Weight per Piece (including packing)	1,416 g
Weight per Piece (excluding packing)	1,328 g
Customs tariff number	85322900
Country of origin	CN



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## **Technical Data**

### Input data

Input voltage range	22.5 V DC 30 V DC
Fixed backup threshold	< 22 V DC
Voltage type of supply voltage	DC
Current consumption $I_{max}(U_N, I_{OUT} = I_{Stat.Boost}, I_{charge = max})$	46 A (max.)
Current consumption $I_{No-Load}(U_N, I_{OUT} = 0, I_{charge} = 0)$	0.2 A (No-load)
Current consumption I <sub>charge</sub> (U <sub>N</sub> , I <sub>OUT</sub> = 0, I <sub>charge</sub> = max)	0.8 A (charging process)
Buffer time	0.2 s (40 A)
	2 s (4 A)

## Output data

Efficiency	> 98 % (with charged energy storage device)
Connection in parallel	no
Connection in series	No

### Mains operation

Output voltage	24 V DC (depending on the input voltage)
Output current I <sub>N</sub>	40 A
Static Boost (I <sub>Stat.Boost</sub> )	45 A (15 ms)
Dynamic Boost (I <sub>Dyn.Boost</sub> )	60 A (5 s)
Power loss nominal load max.	< 9 W

#### Buffer mode

Output voltage	typ. 22 V DC
Output current I <sub>N</sub>	40 A (depending on output current)
Static Boost (I <sub>Stat.Boost</sub> )	45 A

#### Signal state Ready

Connection labeling	3.3
Switching output	Transistor output, active
State (configurable)	Ready
State condition (configurable)	State of charge = 100% or buffer mode
Output voltage	24 V (U <sub>N</sub> - 2 V (typical))
Output can be loaded	20 mA

#### Signal state UIN OK

Connection labeling	3.1, 3.2
Switching output	Electronic relays (OptoMOS)
State (configurable)	U <sub>In</sub> OK
Output voltage	30 V DC
Output can be loaded	200 mA
LED status indicator	green (U <sub>In</sub> OK)
Signal threshold	Input voltage in the valid range



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Connection labeling	3.4
Function	Signal ground
Reference potential	3.3 Ready
ergy storage	
Nominal capacity	2 mAh
IQ-Technology	no
ectrical properties	
	500.14
Insulation voltage input, output / housing	500 V
oduct properties	
Product type	Buffer module
Product family	QUINT BUFFER
MTBF (IEC 61709, SN 29500)	2813895 h (40 °C)
nsulation characteristics	
Protection class	Special application (SELV input voltage, hazardous voltages a generated in the device).
Overvoltage category	ı
Degree of pollution	2
ife anneaton (alectral tie anneaton)	
Life expectancy (electrolytic capacitors)  Time	71660 h
Time	7 1000 II
mensions	
Width	72 mm
Height	130 mm
Depth	125 mm
nstallation dimensions	
Installation distance right/left	0 mm / 0 mm
Installation distance top/bottom	50 mm / 50 mm
punting	
Assembly instructions	alignable: horizontally 0 mm, vertically 50 mm
Mounting position	horizontal DIN rail NS 35, EN 60715
terial specifications	
Housing material	Metal
vironmental and real-life conditions	
Ambient conditions	
Degree of protection	IP20



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Ambient temperature (operation)	-25 °C 70 °C (> 40 °C Derating: 0.56 %/K / > 60 °C Derating
	2.5 %/K)
Ambient temperature (storage/transport)	-40 °C 70 °C
Ambient temperature (start-up type tested)	-40 °C
Maximum altitude	≤ 4000 m
Climatic class	3K3 (in acc. with EN 60721)
Max. permissible relative humidity (operation)	≤ 95 %
andards and regulations	
Electrical safety	
Standards/specifications	IEC 60950-1/VDE 0805 (SELV)
pprovals	
UL	
Identification	UL Listed UL 508
UL	
Identification	UL/C-UL Recognized UL 60950-1
ИС data	
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
EMC requirements for noise emission	EN 61000-6-3
	EN 61000-6-4
EMC requirements for noise immunity	EN 61000-6-1
	EN 61000-6-2
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 55016
	EN 61000-6-3
Electrostatic discharge	
Standards/regulations	EN 61000-4-2
Electrostatic discharge	
Contact discharge	6 kV (Test Level 3)
Discharge in air	8 kV (Test Level 3)
Comments	Criterion A
Electromagnetic HF field	
Standards/regulations	EN 61000-4-3
Electromagnetic HF field	
Frequency range	80 MHz 6 GHz
Test field strength	10 V/m



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Standards/regulations	EN 61000-4-4
Fast transients (burst)	
Input	2 kV (Test Level 3 - asymmetrical)
Output	2 kV (Test Level 3 - asymmetrical)
Signal	2 kV (Test Level 3 - asymmetrical)
Comments	Criterion A
Surge voltage load (surge)	
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	
Standards/regulations	EN 61000-4-6
Conducted interference	
Frequency range	0.15 MHz 80 MHz
Comments	Criterion A
Voltage	10 V
Criteria	
Criterion A	Normal operating behavior within the specified limits.
Criterion B	Temporary impairment to operational behavior that is corrected by the device itself.

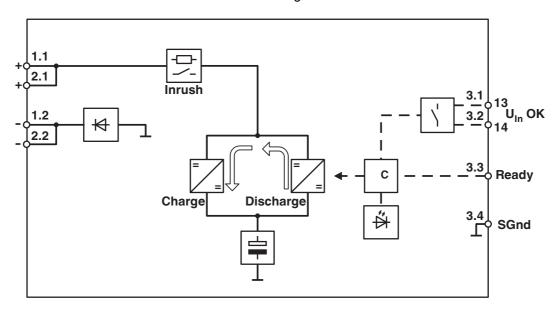


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## Drawings

### Block diagram





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## **Approvals**



cUL Recognized

Approval ID: FILE E 211944



**UL Recognized** 

Approval ID: FILE E 211944



EAC

Approval ID: RU S-DE.BL08.W.00764



**UL Listed** 

Approval ID: FILE E 123528



cUL Listed

Approval ID: FILE E 123528



cUL Listed

Approval ID: FILE E 199827



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## Classifications

### **ECLASS**

	ECLASS-11.0	27040692
	ECLASS-12.0	27040692
	ECLASS-13.0	27040692
ETIM		
	ETIM 8.0	EC002850
LIN	SPSC	

### UNSPSC

UNSPSC 21.0	26111700
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## **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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#### Accessories

### UWA 130 - Mounting adapter

2901664

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2-piece universal wall adapter for securely mounting the device in the event of strong vibrations. The profiles that are screwed onto the side of the device are screwed directly onto the mounting surface. The universal wall adapter is attached on the left/right.

### UWA 182/52 - Mounting adapter

2938235

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Universal wall adapter for securely mounting the device in the event of strong vibrations. The device is screwed directly onto the mounting surface. The universal wall adapter is attached on the top/bottom.

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