

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)	1,356 g
Weight per piece (excluding packing)	1,328 g
Customs tariff number	85322200
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 _{charge} (U _N , I _{OUT} = 0, I _{charge} = 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 _N	40 A
Power loss nominal load max.	< 9 W

Buffer mode

Output voltage	typ. 22 V DC
Output current I _N	40 A (depending on output current)
Static Boost (I _{Stat.Boost})	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 _N - 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 _{In} OK
Output voltage	30 V DC
Output can be loaded	200 mA
LED status indicator	green (U _{In} OK)
Signal threshold	Input voltage in the valid range

Signal ground SGnd



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Connection labeling Function	3.4 Signal ground
Reference potential	3.3 Ready
nergy storage	
Input	
Nominal capacity	2 mAh
General	
IQ-Technology	no
Electrical properties	
Insulation voltage input, output / housing	500 V
N. J. M. C.	
Product properties	
Product type	Buffer module
Product family	QUINT BUFFER
MTBF (IEC 61709, SN 29500)	2813895 h (40 °C)
Data management status	
Article revision	03
Insulation characteristics	
Protection class	Special application (SELV input voltage, hazardous voltages are generated in the device).
Overvoltage category	I
Degree of pollution	2
Life expectancy (electrolytic capacitors)	
Time	71660 h
Dimensions	
Item dimensions	
Width	72 mm
Height	130 mm
Depth	125 mm
Installation dimensions	
Installation distance right/left	0 mm / 0 mm
Installation distance top/bottom	50 mm / 50 mm
Nounting	
Assembly note	alignable: horizontally 0 mm, vertically 50 mm
Mounting position	horizontal DIN rail NS 35, EN 60715

Material specifications



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Housing material	Metal
Environmental and real-life conditions	
Environmental and real life conditions	
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 (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 %
Standards and regulations	
Electrical safety	
Standard designation	Electrical safety
Standards/specifications	IEC 60950-1/VDE 0805 (SELV)
Approvals	
UL	
Identification	UL Listed UL 508
UL	
Identification	UL/C-UL Recognized UL 60950-1
EMC 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
C.L. Idal do l'Ogdiditolio	211 0 1000 7 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
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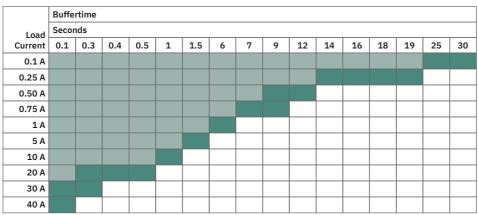


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Drawings

Graphic



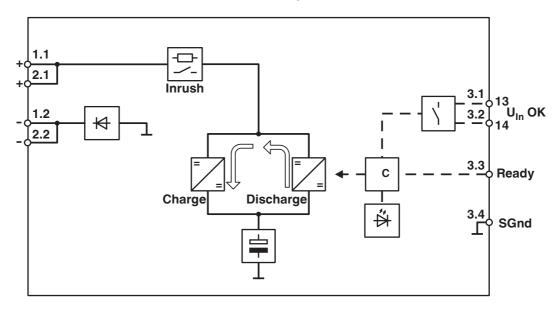
The data is based on an ambient temperature of +25 °C at the start of use.

2907913 QUINT4-BUFFER/24DC/20

2908283 QUINT4-BUFFER/24DC/40

QUINT BUFFER buffer times

Block diagram



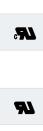


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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2908283



cUL RecognizedApproval ID: E211944

UL RecognizedApproval ID: E211944



EAC

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



UL Listed

Approval ID: E123528



cUL Listed

Approval ID: E123528



IECEE CB Scheme





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Classifications

ECLASS

	ECLASS-11.0	27040692		
	ECLASS-12.0	27040692		
	ECLASS-13.0	27040692		
ETIM				
	ETIM 9.0	EC002850		
UNSPSC				
	UNSPSC 21.0	26111700		



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-25
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	e81279e6-c2ff-4854-8ec5-6cd64b3c3168



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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

https://www.phoenixcontact.com/us/products/2938235



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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