#### 2907913

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

### Commercial data

Item number	2907913
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CM21
Product key	CMUIE3
Catalog page	Page 345 (C-4-2019)
GTIN	4055626309040
Weight per piece (including packing)	1,076.3 g
Weight per piece (excluding packing)	997 g
Customs tariff number	85322900
Country of origin	CN

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### Technical data

LED status indicator

#### 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 <sub>N</sub> , $I_{OUT} = I_{Stat.Boost}$ , $I_{charge = max}$ )	26 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 <sub>N</sub> , $I_{OUT}$ = 0, $I_{charge}$ = max)	0.6 A (charging process)
Buffer time	0.2 s (20 A)
	2 s (2 A)
tput data	
Efficiency	> 98 % (with charged energy storage device)
Connection in parallel	no
Connection in series	No
flains operation	
Output voltage	24 V DC (depending on the input voltage)
Output current I <sub>N</sub>	20 A
Static Boost (I <sub>Stat.Boost</sub> )	25 A (15 ms)
Dynamic Boost (I <sub>Dyn.Boost</sub> )	30 A (5 s)
Power loss nominal load max.	< 6 W
Buffer mode	
Output voltage	typ. 22 V DC
Output current I <sub>N</sub>	20 A (depending on output current)
Static Boost (I <sub>Stat.Boost</sub> )	25 A
Power loss nominal load max.	< 6 W
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
	(1) 0(0)

green (U<sub>In</sub> OK)

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Signal threshold	Input voltage in the valid range
Signal ground SGnd	
Connection labeling	3.4
Function	Signal ground
Reference potential	3.3 Ready
Energy storage	
Input	
Nominal capacity	1 mAh
General	
IQ-Technology	no
Electrical properties	
Insulation voltage input, output / housing	500 V
Product properties	
Product type	Buffer module
Product family	QUINT BUFFER
MTBF (IEC 61709, SN 29500)	2497464 h (40 °C)
Insulation characteristics	
Protection class	Special application (SELV input voltage, hazardous voltages are generated in the device).
Overvoltage category	1
Degree of pollution	2
Life expectancy (electrolytic capacitors)	
Time	88224 h
Dimensions	
Item dimensions	
Width	56 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
Mounting	

Assembly instructions	alignable: horizontally 0 mm, vertically 50 mm
Mounting position	horizontal DIN rail NS 35, EN 60715

#### Material specifications



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Housing material

nbient 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 (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 %
ndards and regulations	
ectrical safety	
Standard designation	Electrical safety
Standards/specifications	IEC 60950-1/VDE 0805 (SELV)
Identification	UL Listed UL 508
Identification	OL LISIEU OL 506
L	
Identification	UL/C-UL Recognized UL 60950-1
C 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
Noise immunity	Immunity in accordance with EN 61000-6-2 (industrial)
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 55016
	EN 61000-6-3
ectrostatic discharge	
Standards/regulations	EN 61000-4-2
ectrostatic discharge	
Contact discharge	6 kV (Test Level 3)
Discharge in air	8 kV (Test Level 3)
Comments	Criterion A

Metal

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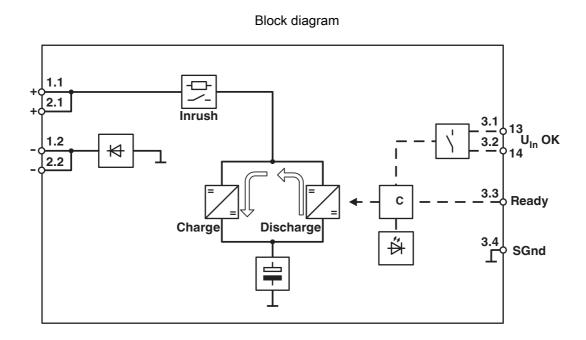
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Standards/regulations	EN 61000-4-3
Electromagnetic HF field	
Frequency range	80 MHz 6 GHz
Test field strength	10 V/m
Comments	Criterion A
Fast transients (burst)	
Standards/regulations	EN 61000-4-4
Fast transients (burst)	
Input	2 kV (Test Level 3 - 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



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### Approvals

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<b>.R</b> .	CUL Recognized Approval ID: FILE E 211944
17	UL Recognized Approval ID: FILE E 211944
ERC	EAC Approval ID: RU S-DE.BL08.W.00764
	UL Listed Approval ID: FILE E 123528
•	CUL Listed Approval ID: FILE E 123528
<u>.</u>	CUL Listed Approval ID: FILE E 199827
	UL Listed Approval ID: FILE E 199827
cU	Lus Recognized
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cU	Lus Listed

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### Classifications

#### ECLASS

ECLASS-12.0 27040692	ECLASS-11.0	27040692
ECLASS-13.0 27040692	ECLASS-12.0	27040692
	ECLASS-13.0	27040692

#### ETIM

	ETIM 8.0	EC002850
UN	NSPSC	
	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 https://www.phoenixcontact.com/us/products/2901664

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.

2-piece universal wall adapter for securely mounting the device in the event of



#### 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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