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

Input data

Input voltage	24 V DC (SELV)
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 , $I_{OUT} = I_{Stat.Boost}$, $I_{charge = max}$)	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 _N , I_{OUT} = 0, I_{charge} = max)	0.6 A (charging process)
Buffer time	0.2 s (20 A)
	2 s (2 A)
utput 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	20 A
Static Boost (I _{Stat.Boost})	25 A (15 ms)
Dynamic Boost (I _{Dyn.Boost})	30 A (5 s)
Power loss nominal load max.	< 6 W
Buffer mode	
Output voltage	typ. 22 V DC
Output current I _N	20 A (depending on output current)
Static Boost (I _{Stat.Boost})	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 _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
Output can be loaded Signal state UIN OK Connection labeling Switching output State (configurable) Output voltage	20 mA 3.1, 3.2 Electronic relays (OptoMOS) U _{In} OK 30 V DC



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LED status indicator	green (U _{In} OK)
Signal threshold	Input voltage in the valid range
Signal ground SGnd	
Connection labeling	3.4
Function	Signal ground
Reference potential	3.3 Ready
nergy storage	
Nominal capacity	1 mAh
IQ-Technology	no
onnection data	
Input	
Position	1.x
Conductor connection	
Connection method	Screw connection
rigid	0.2 mm ² 6 mm ²
flexible	0.2 mm ² 4 mm ²
flexible with ferrule without plastic sleeve	0.2 mm ² 6 mm ²
flexible with ferrule with plastic sleeve	0.2 mm ² 4 mm ²
rigid (AWG)	30 10
Stripping length	8 mm
Tightening torque	0.5 Nm 0.6 Nm
Drive form screw head	Slotted L
Output	
Position	2.x
Conductor connection Connection method	Corrow connection
	Screw connection 0.2 mm² 6 mm²
rigid flexible	0.2 mm ² 4 mm ²
	0.2 mm ² 6 mm ²
flexible with ferrule with plastic sleeve	0.2 mm ² 4 mm ²
flexible with ferrule with plastic sleeve	
rigid (AWG)	30 10
Stripping length Tightening torque	8 mm 0.5 Nm 0.6 Nm
Drive form screw head	Slotted L
Signal	
Position	3.x
Conductor connection	
Connection method	Push-in connection

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rigid	0.2 mm ² 1.5 mm ²
flexible	0.2 mm ² 1.5 mm ²
flexible with ferrule without plastic sleeve	0.2 mm ² 1.5 mm ²
flexible with ferrule with plastic sleeve	0.2 mm ² 0.75 mm ²
rigid (AWG)	24 16
Stripping length	8 mm
ectrical properties	
Insulation voltage input, output / housing	500 V
roduct 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
imensions	
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
ounting	
Assembly instructions	alignable: horizontally 0 mm, vertically 50 mm
Mounting position	horizontal DIN rail NS 35, EN 60715
aterial specifications	
Housing material	Metal
nvironmental and real-life conditions	
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 (storage/transport)	-40 °C 70 °C

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mbient 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	
Electrical safety	
Standards/specifications	IEC 60950-1/VDE 0805 (SELV)
oroval data	
JL	
Identification	UL Listed UL 508
JL	
Identification	UL/C-UL Recognized UL 60950-1
IC data	
Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
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 emission	EN 55016
	EN 61000-6-3
Noise immunity	Immunity in accordance with EN 61000-6-2 (industrial)
Electrostatic discharge	
Standards/regulations	EN 61000-4-2
lectrostatic 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
Comments	Criterion A
ast transients (burst)	
Standards/regulations	EN 61000-4-4

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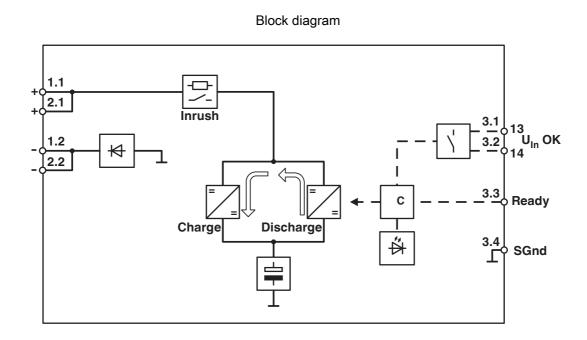
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Input	2 kV (Test Level 3 - asymmetrical)
Output	2 kV (Test Level 3 - asymmetrical)
Signal	2 kV (Test Level 3 - asymmetrical)
Comments	Criterion A
urge voltage load (surge)	
Input	1 kV (Test Level 2 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Output	1 kV (Test Level 2 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Signal	1 kV (Test Level 2 - asymmetrical)
Comments	Criterion A
onducted interference	
Standards/regulations	EN 61000-4-6
onducted interference	
Frequency range	0.15 MHz 80 MHz
Comments	Criterion A
	10 V
Voltage	
Voltage	
, and the second s	Normal operating behavior within the specified limits.

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Drawings



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Approvals		
17:	CUL Recognized Approval ID: FILE E 211944	
-	UL Recognized	
91	Approval ID: FILE E 211944	
ERC	EAC Approval ID: RU S-DE.BL08.W.00764	
	UL Listed Approval ID: FILE E 123528	
· Q	CUL Listed Approval ID: FILE E 123528	
B	CUL Listed Approval ID: FILE E 199827	
	UL Listed Approval ID: FILE E 199827	
cU	ILus Recognized	
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CU		

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Classifications

ECLASS

	ECLASS-9.0	27049201
	ECLASS-11.0	27040692
ETIM		
	ETIM 8.0	EC002850
U	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

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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