

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 range	22.5 V DC 30 V DC
Fixed backup threshold	< 22 V DC
Voltage type of supply voltage	DC
Current consumption I <sub>max</sub> (U <sub>N</sub> , I <sub>OUT</sub> = I <sub>Stat.Boost</sub> , I <sub>charge = max</sub> )	26 A (max.)
Current consumption I <sub>No-Load</sub> (U <sub>N</sub> , I <sub>OUT</sub> = 0, I <sub>charge</sub> = 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)

### Output data

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

Output current I <sub>N</sub>	20 A
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
LED status indicator	green (U <sub>In</sub> OK)
Signal threshold	Input voltage in the valid range

## Signal ground SGnd



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Connection labeling	3.4
Function	Signal ground
Reference potential	3.3 Ready
nergy storage	
Dec. 1	
Input Nominal capacity	1 mAh
	1,000
General	
IQ-Technology	no
lectrical 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	I
Degree of pollution	2
Life expectancy (electrolytic capacitors)	
Time	88224 h
Dimensions	
illensions	
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
lounting	
Assembly instructions	alignable: horizontally 0 mm, vertically 50 mm
Mounting position	horizontal DIN rail NS 35, EN 60715
laterial specifications	
Housing material	Metal

### Environmental and real-life conditions



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#### 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
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

#### E١

MC 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
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)

Criterion A

Electromagnetic HF field
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Comments

Standards/regulations	EN 61000-4-3

Electromagnetic HF field



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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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## Classifications

UNSPSC 21.0

### **ECLASS**

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

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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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