

QUINT4-CAP/24DC/3.8/1KJ/PT - Capacity module



2320526

<https://www.phoenixcontact.com/us/products/2320526>

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QUINT capacity module with maintenance-free double-layer capacitor-based energy storage for DIN rail mounting, input: 24 V DC, output: 24 V DC / 3.8 A / 1 kJ

Your advantages

- Maintenance-free with a long service life
- Space savings, thanks to the compact design
- Long buffer time, thanks to high memory capacity

Commercial Data

Item number	2320526
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CM21
Product Key	CMUIC3
GTIN	4055626246925
Weight per Piece (including packing)	605 g
Weight per Piece (excluding packing)	454 g
Customs tariff number	85322900
Country of origin	CN

Technical Data

Product properties

Product type	DC UPS with integrated capacitor
Product family	QUINT capacity module
MTBF (IEC 61709, SN 29500)	996550 h (40 °C)
	1631804 h (25 °C)
	449865 h (60 °C)

Insulation characteristics

Protection class	III
Overvoltage category	II
Degree of pollution	2

Electrical properties

Insulation voltage input, output / housing	500 V
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Input data

Input voltage	24 V DC (SELV)
Input voltage range	22.5 V DC ... 30 V DC
Fixed backup threshold	< 22 V DC
Current consumption I_{\max} (U_N , $I_{OUT} = I_{Stat.Boost}$, $I_{charge} = \max$)	4.3 A
Current consumption $I_{No-Load}$ (U_N , $I_{OUT} = 0$, $I_{charge} = 0$)	0.08 A
Current consumption I_{charge} (U_N , $I_{OUT} = 0$, $I_{charge} = \max$)	0.43 A
Buffer time	9 s (3.8 A)
	30 s (1 A)
Charging time	4 min. (0.43 A)
Recharging time	3 min. (0.43 A)

Output data

Efficiency	> 97 % (with charged energy storage device)
Connection in parallel	yes
	max. 2 (with decoupling module)
Connection in series	No

Mains operation

Output voltage	24 V DC (depending on the input voltage)
Output current I_N	3.8 A
Output power P_{OUT} (U_N , $I_{OUT} = I_N$)	91.2 W
Maximum no-load power dissipation	< 2 W

Battery operation

Output voltage	24 V DC
Output current I_N	3.8 A

Energy storage

General

Capacity	1 kJ
Storage medium	Double-layer capacitor
Buffer time	9 s (3.8 A)
	30 s (1 A)

Signaling

Signal state Remote

Connection labeling	3.3
State (configurable)	Remote
State condition	Remote

Signal state UIN OK

Connection labeling	3.1
Switching output	Transistor output, active
State (configurable)	U_{in} OK
Output voltage	24 V ($U_N - 1$ V (typical))
Output can be loaded	20 mA
LED status indicator	green (U_{in} OK)
Signal threshold	Input voltage in the valid range

Signal state Ready

Connection labeling	3.2
Switching output	Transistor output, active
State (configurable)	Ready
State condition (configurable)	State of charge = 100% or buffer mode
Output voltage	24 V ($U_N - 1$ V (typical))
Output can be loaded	20 mA

Signal ground SGnd

Connection labeling	3.4
Function	Signal ground
Reference potential	U_{in} OK (3.1), Ready (3.2), Remote (3.3)

Dimensions

Item dimensions

Width	85 mm
Height	102.5 mm
Depth	90 mm

Installation dimensions

Installation distance right/left	0 mm / 0 mm
Installation distance top/bottom	50 mm / 50 mm

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Material specifications

Housing material	Plastic
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 60 °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 %

Approvals

UL

Identification	UL Listed UL 61010-1
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UL

Identification	UL Listed UL 61010-2-201
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UL

Identification	UL 121201
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CSA

Identification	CSA C22.2 No. 223 class 2 (buffer mode)
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CSA

Identification	CAN/CSA-C22.2 No. 61010-1-12
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CSA

Identification	CAN/CSA C22.2 No. 61010-2-201:14
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CSA

Identification	CSA C22.2 No. 213-17
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UL NEC

Identification	UL 1310 class 2 (buffer mode)
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CB scheme

Identification	IEC 61010-1
	IEC 61010-2-201
	EN 61010-1
	EN 61010-2-201

EMC data

Low Voltage Directive	Conformance with Low Voltage Directive 2014/35/EC
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Electromagnetic compatibility	Conformance with EMC Directive 2014/30/EU
Noise emission	EN 61000-6-3

Electrostatic discharge

Standards/regulations	EN 61000-4-2
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Electrostatic discharge

Contact discharge	6 kV (Test Level 3)
Discharge in air	8 kV (Test Level 3)
Comments	Criterion B

Electromagnetic HF field

Standards/regulations	EN 61000-4-3
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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
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Fast transients (burst)

Input	2 kV (Test Level 3 - asymmetrical)
Output	2 kV (Test Level 3 - asymmetrical)
Signal	2 kV (Test Level 4 - asymmetrical)
Comments	Criterion B

Surge voltage load (surge)

Standards/regulations	EN 61000-4-5
Input	1 kV (Test Level 3 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Output	1 kV (Test Level 3 - symmetrical)
	2 kV (Test Level 3 - asymmetrical)
Signal	1 kV (Test Level 1 - asymmetrical)
Comments	Criterion B

Conducted interference

Standards/regulations	EN 61000-4-6
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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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Mounting

Mounting type	DIN rail mounting
Assembly instructions	alignable: horizontally 0 mm, vertically 50 mm
Mounting position	Any, on NS 35 DIN rail

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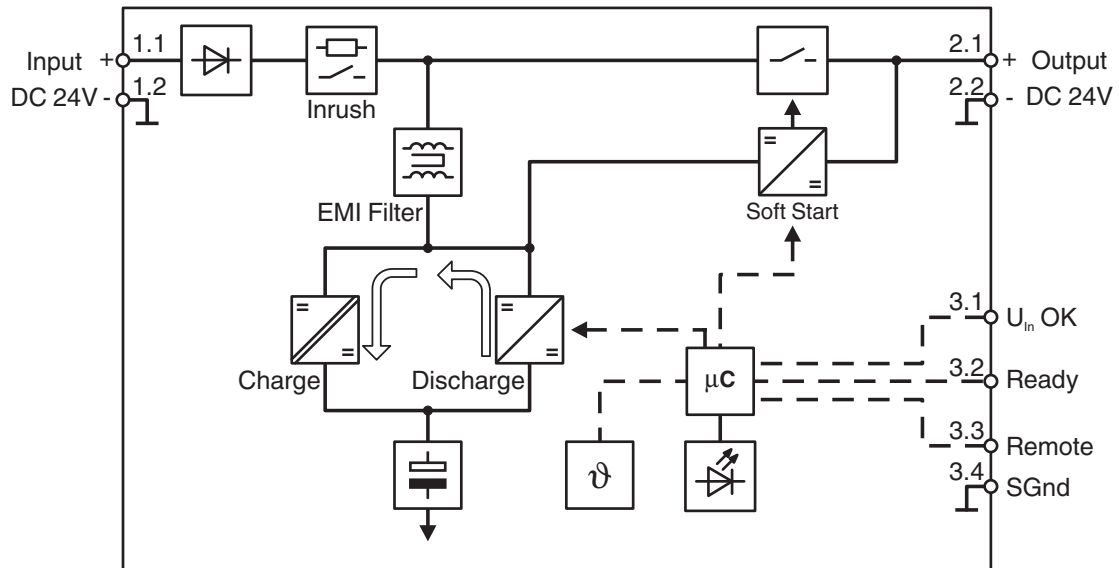


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Drawings

Block diagram



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Approvals

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UL Listed

Approval ID: FILE E 123528



cUL Listed

Approval ID: FILE E 123528



EAC

Approval ID: RU*DE*HB54.B05799/20



cUL Listed

Approval ID: FILE E 199827



UL Listed

Approval ID: FILE E 199827

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Classifications

ECLASS

ECLASS-11.0	27040705
ECLASS-12.0	27040705
ECLASS-13.0	27040705

ETIM

ETIM 8.0	EC002850
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UNSPSC

UNSPSC 21.0	26111700
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Environmental Product Compliance

REACH SVHC

Lead 7439-92-1

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Accessories

CB TM1 8A SFB P - Thermomagnetic device circuit breaker

2800842

<https://www.phoenixcontact.com/us/products/2800842>

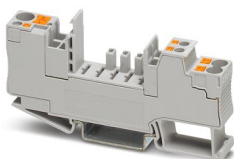


Thermomagnetic device circuit breaker, 1-pos., tripping characteristic SFB, 1 changeover contact, plug for base element.

CB 1/6-2/4 PT-BE - Base element

2800929

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Base element with push-in connection technology for CB ... device circuit breakers

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SI FORM C 7,5 A DIN 72581 - Fuse

0913702

<https://www.phoenixcontact.com/us/products/0913702>

Flat-type plug-in fuse, type C, color code: brown, nominal current: 7.5 A



PT 6-FSI/C - Fuse modular terminal block

3212166

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Fuse modular terminal block, fuse type: Flat, fuse type: Type C / max. 2.2 W, nom. voltage: 400 V, nominal current: 25 A, connection method: Push-in connection, Rated cross section: 6 mm², cross section: 0.5 mm²- 10 mm², mounting type: NS 35/7,5, NS 35/15, color: black

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