

QUINT-BUFFER/24DC/20

Order No.: 2866213

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Buffer module 24 V DC/20 A, maintenance-free power storage device on a capacitor basis. In the download area, there is a clearly arranged selection table available with load currents and buffer times, as well as charging times after buffer mode.

Commercial data

EAN	4017918959739
Pack	1 pcs.
Customs tariff	85044081
Weight/Piece	1.1939 KG
Catalog page information	Page 586 (IF-2009)

Product notes

WEEE/RoHS-compliant since:
11/30/2006



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Product description

Short-term mains interruptions are bridged by QUINT BUFFER, a maintenance-free buffer module on a capacitor basis. Systems can therefore also run in unstable networks or are, in the event of failures of a longer duration, correctly shut down after all relevant process data is saved. The bridging time is 200 ms at 20 A and 4 s at 1 A. The buffer module also acts as a power storage device for peak loads and for triggering fuses. For function monitoring, an active switching output and a control lamp are used. With the integrated diode, loads can be divided into buffered and unbuffered loads. Thus, the buffer period is extended and the buffered consumers are protected against errors in the internal network.

Technical data

Input data

Nominal input voltage	24 V DC
DC input voltage range	22.5 V DC ... 30 V DC
Current consumption	Approx. 0.1 A
	0.6 A (charging process)
	20.6 A (max.)
Buffer period	0.2 s (20 A)
	4 s (1 A)
Charging time	< 27 s
Name of protection	Transient surge protection
Protective circuit/component	Suppressor diode, 35 V DC

Output data

Nominal output voltage	24 V DC (depending on the input voltage)
Setting range of the output voltage	22 V AC ... 28.5 V AC
Output current	20 A
Connection in parallel	Yes, for increasing the buffer time and for redundancy
Connection in series	Yes
Residual ripple	< 100 mVPP (buffer mode)
Peak switching voltages nominal load	< 100 mVPP (20 MHz)
Name of protection	Transient surge protection
Protective circuit/component	Suppressor diode, 35 V DC

General data

Width	64 mm
Height	130 mm
Depth	125 mm
Weight	1 kg
Memory medium	Internal, capacity
Operating voltage display	LED green
Efficiency	> 95 %
Insulation voltage input/output	1 kV (routine test)
	1 kV (type test)
Degree of protection	IP20
Class of protection	III, without PE connection

MTBF	> 500 000 h in acc. with IEC 61709 (SN 29500)
Ambient temperature (operation)	-25 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Max. permissible relative humidity (operation)	95 % (at 25°C, no condensation)
Mounting position	Horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontal 0 cm, vertical 5 cm
Electromagnetic compatibility	Conformance with EMC guideline 2004/108/EC and for low-voltage guideline 2006/95/EC
Emitted interference	EN 50081-2
Immunity to interference	EN 61000-6-2:2005
Standard – Electrical equipment of machines	EN 60204
Standard - Safety of transformers	EN 61558-2-17
Standard - Electrical safety	EN 60950/VDE 0805 (SELV)
	EN 61558-2-17
Standard – Shipbuilding	German Lloyd, ABS, DNV
Standard – Electronic equipment for use in electrical power installations and their assembly into electrical power installations	EN 50178/VDE 0160 (PELV)
Standard – Safety extra-low voltage	EN 60950 (SELV) and EN 60204 (PELV)
Standard - Safe isolation	DIN VDE 0106-101
UL approvals	UL/C-UL listed UL 508
	UL/C-UL Recognized UL 60950
	UL/C-UL Listed UL 1604 Class I, Division 2, Groups A, B, C, D

Connection data, input

Type of connection	Screw connection
Conductor cross section solid min.	0.5 mm ²
Conductor cross section solid max.	16 mm ²
Conductor cross section stranded min.	0.5 mm ²
Conductor cross section stranded max.	10 mm ²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	6
Stripping length	10 mm
Screw thread	M4

Connection data, output

Type of connection	Screw connection
Conductor cross section solid min.	0.5 mm ²

Conductor cross section solid max.	16 mm ²
Conductor cross section stranded min.	0.5 mm ²
Conductor cross section stranded max.	10 mm ²
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	6
Stripping length	10 mm

Signaling

Output name	Active (high = buffer module is loaded)
Output description	Power Good
Maximum switching voltage	≤ 24 V
Output voltage	+ 24 V
Continuous load current	≤ 20 mA
Status display	LED "Power Good", green
Note on status display	Buffer module is loaded: LED ON
Conductor cross section solid min.	0.2 mm ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12
Tightening torque, min	0.5 Nm
Tightening torque max	0.6 Nm
Screw thread	M3

Certificates / Approvals

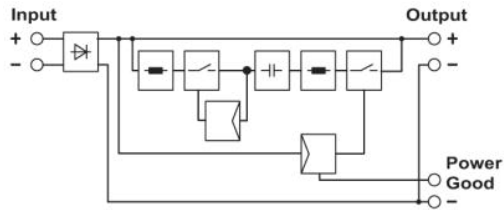


Certification ABS, CUL, CUL Listed, DNV, GL, GOST, UL, UL Listed

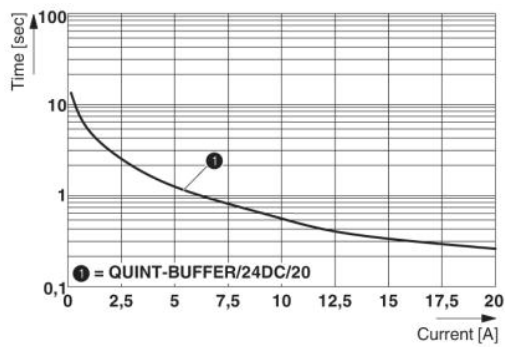
Certification Ex: CUL-EX LIS, UL-EX LIS

Drawings

Block diagram



Diagram



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