Extract from the online catalog

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.

Order No.	2866213
Ord designation	QUINT-BUFFER/24DC/20
EAN	4017918959739
Pack	1 Pcs.
Customs tariff	85044081
Weight/Piece	1.1551 KG
Catalog page information	Page 492 (IF-2007)

Product notes

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

IMPORTANT : This date is valid for Customers in Germany only. Date Format is MM/DD/YYYY.Please contact your local in-country Phoenix Contact location or designated business partner for a Logistics Compliant date in your area.In order to guarantee delivery of RoHS-Compliant product, please purchase Phoenix Contact parts from authorized Phoenix Contact representatives and distributors.

Technical data

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.

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
Current consumption	0.6 A (charging process)
Current consumption	20.6 A (max.)
Buffer period	0.2 s (20 A)
Buffer period	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	No
Residual ripple	PP (buffer mode)
Peak switching voltages nominal load	PP (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)
Insulation voltage input/output	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)

Installation position	Horizontal DIN rail NS 35, EN 60715
Assembly instructions	Can be aligned: Horizontal 0 cm, vertical 5 cm
Electromagnetic compatibility	Conformance with EMC directive 89/336/EEC
Emitted interference	EN 50081-2
Immunity to interference	EN 61000-6-2
Standard – Electrical equipment of machines	EN 60204
Standard – Safety transformers for switched-mode power supply units	EN 61558-2-17
Standard - Electrical safety	EN 60950/VDE 0805 (SELV)
Standard - Electrical safety	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 rating	UL/C-UL Listed UL 508
UL rating	UL/C-UL Recognized UL 60950
UL rating	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	M 4

Connection data, output

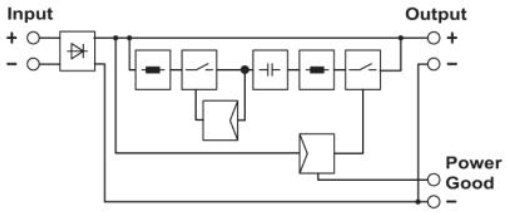
Type of connection	Screw connection
Conductor cross section solid min.	0.5 mm^2
Conductor cross section solid max.	16 mm^2
Conductor cross section stranded min.	0.5 mm^2
Conductor cross section stranded max.	10 mm^2
Conductor cross section AWG/kcmil min.	20
Conductor cross section AWG/kcmil max	6
Stripping 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	M 3

Drawings

Block diagram



Accessories

Item	Designation	Description
General		
2938235	UWA 182/52	Universal wall adapter

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