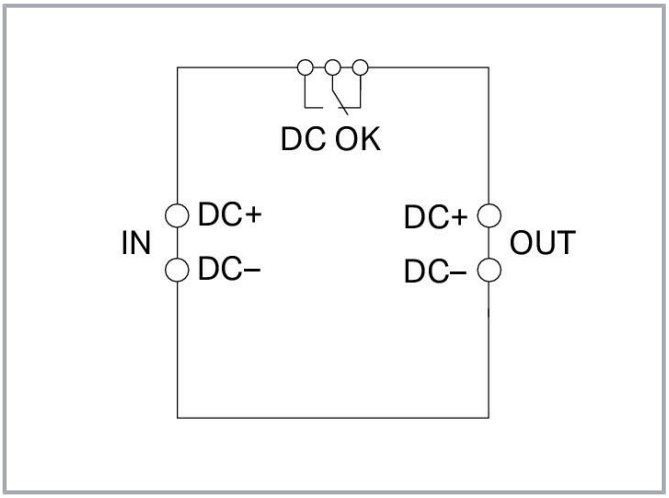
Data sheet | Item number: 787-916

capacitive buffer module; 24 VDC input voltage; 24 VDC output voltage; 40 A output current; Buffer time: 0.3 … 6.6 s

www.wago.com/787-916





Item description

Features:

- Capacitive buffer module bridges short duration voltage drops or load fluctuations.
- Internal diode between input and output enables operation with a decoupled output.
- Potential-free contact for charge condition monitoring

Data

Technical data

Subject to changes. Please also observe the further product documentation!

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Input

Nominal input voltage $U_{i\ nom}$	DC 24 V
Input voltage range	DC 23 … 30 V
Nominal mains frequency range	0 Hz
Input current I_i	≤ 0.06 A (No load); ≤ 0.8 A (Charging); ≤ 40.8 A

Output

Nominal output voltage $U_{o\ nom}$	DC 24 V
Output voltage range	U_i – 0.5 VDC (mains operation; I_o = 20 A); U_i - 0.8 VDC (mains operation; I_o = 40 A); 20 … 29 VDC (buffer mode)
Nominal output current $I_{o\ nom}$	40 A

Energy storage systems

Buffer time	0.3 … 6.6 s depends on load current and temperature
Switch-on threshold (typ.)	DC 22 V
Nominal capacity	4.17
Nominal voltage	32.4 V
Effective energy content (typ.)	500
Charging time (typ.)	2.5 min

Signaling and communication

Signaling	1 x LED DC OK (green) 1 x UPS LED (yellow) 1 x Warning LED (red)
Operation status indicator	Green LED (DC OK) Yellow LED (buffer mode/charging) Red LED (warning)

Efficiency/power losses

Power loss P_l	≤ 1.9 W (operation without decoupled output); ≤ 11.5 W (Operation with uncoupled output; I_o = 20 A); ≤ 33.5 W (Operation with uncoupled output; I_o = 40 A)
Efficiency (typ.)	96.5 %

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Circuit protection

Internal fuse	No
Backup fusing (recommended)	T 40 A

Safety and protection

Protection class	III
Protection type	IP20; per EN 60529
Reverse voltage protection	yes
Pollution degree	2
Parallel operation	No
Series operation	No
Service life	74,000 h (25 °C; I_a = 40 A); 28,200 h (40 °C; I_a = 40 A)

Connection data

Connection type 1	Input/Output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2636 Series
Solid conductor	0.75 … 16 mm² / 18 … 4 AWG
Fine-stranded conductor	0.75 … 25 mm² / 18 … 4 AWG
Fine-stranded conductor; with insulated ferrule	0.75 … 16 mm²
Fine-stranded conductor; with uninsulated ferrule	0.75 … 16 mm²
Strip length	18 … 20 mm / 0.71 … 0.79 inches
Connection type 2	Signaling
Connection technology 2	CAGE CLAMP®
WAGO connector 2	WAGO 741 Series
Solid conductor 2	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor 2	0.08 … 2.5 mm² / 28 … 12 AWG
Fine-stranded conductor; with insulated ferrule 2	0.25 … 1.5 mm²
Fine-stranded conductor; with uninsulated ferrule 2	0.25 … 1.5 mm²
Strip length 2	5 … 6 mm / 0.2 … 0.24 inches

Physical data

Width	68 mm / 2.677 inches
Height	181 mm / 7.126 inches

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Depth from upper-edge of DIN-rail	162 mm / 6.38 inches

Mechanical Data

Mounting type	DIN-35 rail

Material data

Weight	900 g

Environmental requirements

Ambient temperature (operation)	-10 … +50 °C
Ambient temperature (storage)	-10 … +60 °C
Relative humidity	5 … 95 % (no condensation permissible)

Standards and specifications

Conformity marking	CE
Standards/specifications	EN 62368-1 EN 61000-6-2 EN 61000-6-3
Standards/specifications (pending)	CSA

Commercial data

ETIM 8.0	EC002540
ETIM 7.0	EC002540
Recupel Type	
ECCN	NO DATA
PU (SPU)	1 pcs
Packaging type	box
Country of origin	DE
GTIN	4066966088281
Customs tariff number	85044083900

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

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Logo	Approval	Additional Approval Text	Certificate name
	CSA CSA Group	CAN/CSA-C22.2 No. 62368-1	70216154
	EAC GZO Almaty Standart	TP TC 004/2011	EAC CoC 03078
	EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081

Declarations of conformity and manufacturer's declarations

Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Documentation

Bid Text

787-916 X81 - Datei	2019 年7月12 日	xml 6.8 kB	Download
787-916 docx - Datei	2019 年7月12 日	docx 23.2 kB	Download
ausschreiben.de 787-916		URL	Download

Instruction Leaflet

Capacitive Buffer module DC 24 V, 40 A	2019 年6月13 日	pdf 2.2 MB	Download

Additional Information

Disposal and Recycling	V 1.1.0	pdf	Download

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Electrical and electronic equipment, Batteries, Packaging	2022 年8月18 日	2.2 MB

CAD/CAE-Data

CAD data

2D/3D Models 787-916	URL	Download

CAE data

EPLAN Data Portal 787-916	URL	Download

Asset Administration Shell

Asset Administration Shell 787-916	URL	Download

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-916 capacitive buffer module; 24 VDC input voltage; 24 VDC output voltage; 40 A output current; Buffer time: 0.3 … 6.6 s	URL	Download

Installation Notes

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