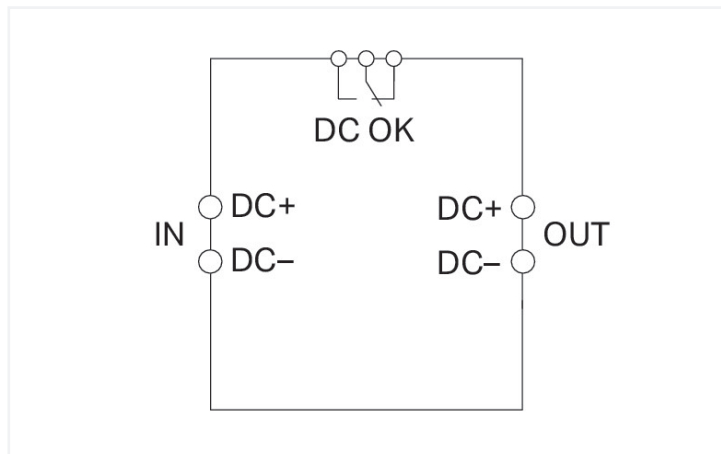


Data Sheet | Item Number: 787-916

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

<https://www.wago.com/787-916>



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

Technical data

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 system	
Buffer time	0.3 ... 6.6 s depends on load current and temperature
Switch-on threshold (typ.)	DC 22 V
Nominal capacity	4.17 F
Nominal voltage	32.4 V
Effective energy content (typ.)	500 Ws
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) 1 x Isolated relay contact (max. 30 VDC; 1 A)
Operation status indicator	Green LED (DC OK) Yellow LED (buffer mode/charging) Red LED (warning)

Efficiency/power losses	
Power loss P_i	≤ 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 %

Circuit protection	
Internal fuse	No
Backup fusing (recommended)	T 40 A

Safety and protection

Isolation voltage (connectors – housing)	DC 0.5 kV
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 mm ² / 18 ... 4 AWG
Fine-stranded conductor	0.75 ... 25 mm ² / 18 ... 4 AWG
Fine-stranded conductor; with insulated ferrule	0.75 ... 16 mm ²
Fine-stranded conductor; with uninsulated ferrule	0.75 ... 16 mm ²
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 mm ² / 28 ... 12 AWG
Fine-stranded conductor 2	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor; with insulated ferrule 2	0.25 ... 1.5 mm ²
Fine-stranded conductor; with uninsulated ferrule 2	0.25 ... 1.5 mm ²
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
Depth from upper-edge of DIN-rail	162 mm / 6.38 inches

Mechanical data

Mounting type	DIN-35 rail
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Material data

Fire load	0 MJ
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
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
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Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
CSA CSA Group	CAN/CSA-C22.2 No. 62368-1	70216154
EAC Brjansker Zertifizierungs- stelle	TP TC 004/2011, TP TC 020/2011	EAC RU C-DE.AM02. B.00089_19

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance




Compliance Search

Environmental Product
Compliance 787-916




Documentation

Bid Text

787-916	12.07.2019	docx 22.61 KB	
787-916	12.07.2019	xml 6.69 KB	
ausschreiben.de 787-916			

Instruction Leaflet

Capacitive Buffer mo- dule	13.06.2019	pdf 2144.86 KB	
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CAD/CAE-Data

CAD data

2D/3D Models 787-916



CAE data

EPLAN Data Portal
787-916

