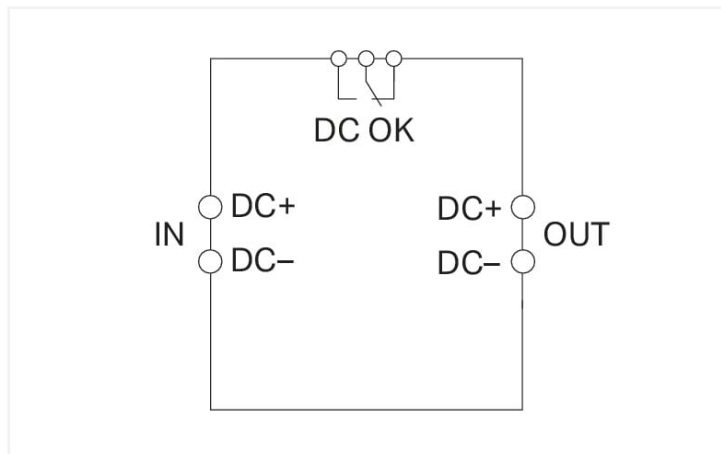


Data Sheet | Item Number: 787-916

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 $U_{i, \text{nom}}$ | 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 $U_{o, \text{nom}}$ | 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 $I_{o, \text{nom}}$ | 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 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 |
|---------------|-------------|

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 |
|------------------------|-------------------------|

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 |  |
|-------------------------------|------------|-------------------|---------------------------------------------------------------------------------------|

CAD/CAE-Data

CAD data

2D/3D Models 787-916



CAE data

EPLAN Data Portal
787-916

