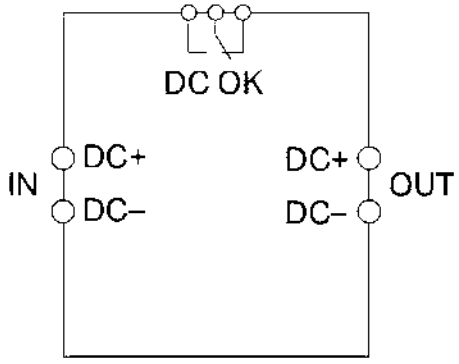
**Data sheet | Item number: 787-916**

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

RoHS ✓ Compliant

BOMcheck.net




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

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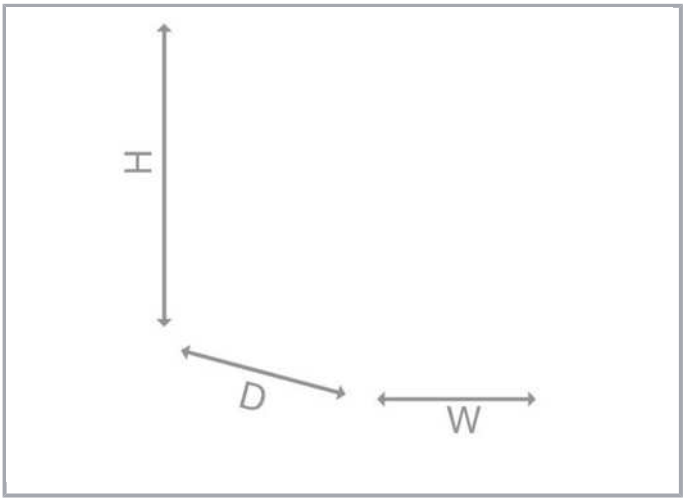


## Item description

**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

### 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 |



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## Energy storage

| | |
|---|---|
| Buffer time | 0,3 … 6,6 s (depends on load current and temperature) |
| Charging time typ. | 2.5 min |

## Signaling and communication

| | |
|---|---|
| Signaling | 1 x LED DC OK (green)<br>1 x UPS LED (yellow)<br>1 x Warning LED (red)<br>1 x Isolated relay contact (max. 30 VDC; 1 A) |
| Operation status indicator | Green LED (DC OK)<br>Yellow LED (buffer mode/charging)<br>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 % |

## Fuse protection:

| | |
|---|---|
| Internal fuse | No |
| External fuse (recommended) | T 40 A |

## Safety and protection:

| | |
|---|---|
| Insulation voltage (connectors-housing) | DC 0,5 kV |
| Protection class | III |
| Protection class | IP20 (per EN 60529) |
| Reverse voltage protection | yes |
| Parallel operation | No |
| Series connection | 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® |

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| | |
|---|---|
| WAGO terminal | 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 ferrule with plastic collar | 0,75 … 16 mm² |
| Fine-stranded conductor with ferrule without plastic collar | 0,75 … 16 mm² |
| Strip length | 18 … 20 mm / 0.71 … 0.79 inch |
| Connection type (2) | Signaling |
| Connection technology 2 | CAGE CLAMP® |
| WAGO terminal 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 inch |

## Geometrical Data

| | |
|---|---|
| Width | 68 mm / 2.677 inch |
| Height | 181 mm / 7.126 inch |
| Length from upper-edge of DIN-35 rail | 162 mm / 6.38 inch |

## Mechanical data

| | |
|---|---|
| Type of mounting | DIN-35 rail (EN 60715) |

## Material Data

| | |
|---|---|
| Weight | 900 g |

## Environmental Requirements

| | |
|---|---|
| Surrounding air (operating) temperature | -10 … 50 °C |
| Surrounding air (storage) temperature | -10 … 60 °C |
| Relative humidity | 5 … 95 % (no condensation permissible) |
| Pollution degree | 2 |

## Standards and specifications

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

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## Commercial data

| | |
|---|---|
| Packaging type | BOX |
| Country of origin | DE |
| GTIN | 4055143825603 |
| Customs Tariff No. | 85044082900 |

## Approvals / Certificates

### Country specific Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|---|---|---|---|
| | **EAC**<br>Brjansker Zertifizierungsstelle | TP TC 004/2011,TP TC 020/2011 | EAC RU C-DE.AM02.B.00089_19 |

## Counterpart

## Downloads

### Documentation

#### Bid Text

| | | | |
|---|---|---|---|
| 787-916<br>GAEB X81 - Datei | Jul 12, 2019 | xml<br>6.8 kB | Download |
| 787-916<br>GAEB docx - Datei | Jul 12, 2019 | docx<br>23.2 kB | Download |

#### Instruction Leaflet

| | | | |
|---|---|---|---|
| Capacitive Buffer module<br>DC 24 V, 40 A | Jun 13, 2019 | pdf<br>2.2 MB | Download |

#### Additional Information

| | | | |
|---|---|---|---|
| Disposal; Electrical and electronic equipment, Packaging | V 1.0.0 | pdf<br>265.8 kB | Download |

## Installation Notes

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