

## 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](http://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

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

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## Data

### 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 $I_i$                      | $\leq 0.06$ A (No load); $\leq 0.8$ A (Charging); $\leq 40.8$ 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  |
| 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)<br>1 x UPS LED (yellow)<br>1 x Warning LED (red)      |
| Operation status indicator | Green LED (DC OK)<br>Yellow LED (buffer mode/charging)<br>Red LED (warning) |

#### Efficiency/power losses

|                  |   |
|------------------|---|
| Power loss $P_l$ | $\leq 1.9$ W (operation without decoupled output); $\leq 11.5$ W (Operation with uncoupled output; $I_o = 20$ A); $\leq 33.5$ W (Operation with uncoupled output; $I_o = 40$ A) |
|------------------|---|

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|                   |        |
|-------------------|--------|
| Efficiency (typ.) | 96.5 % |
|-------------------|--------|

### 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 <sub>a</sub> = 40 A); 28,200 h (40 °C; I <sub>a</sub> = 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 <sup>2</sup> / 18 ... 4 AWG   |
| Fine-stranded conductor                             | 0.75 ... 25 mm <sup>2</sup> / 18 ... 4 AWG   |
| Fine-stranded conductor; with insulated ferrule     | 0.75 ... 16 mm <sup>2</sup>                  |
| Fine-stranded conductor; with uninsulated ferrule   | 0.75 ... 16 mm <sup>2</sup>                  |
| 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 <sup>2</sup> / 28 ... 12 AWG |
| Fine-stranded conductor 2                           | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG |
| Fine-stranded conductor; with insulated ferrule 2   | 0.25 ... 1.5 mm <sup>2</sup>                 |
| Fine-stranded conductor; with uninsulated ferrule 2 | 0.25 ... 1.5 mm <sup>2</sup>                 |
| Strip length 2                                      | 5 ... 6 mm / 0.2 ... 0.24 inches             |

### Physical data

|       |                      |
|-------|----------------------|
| Width | 68 mm / 2.677 inches |
|-------|----------------------|

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

|        |       |
|--------|-------|
| 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<br>EN 61000-6-2<br>EN 61000-6-3 |
| Standards/specifications (pending) | CSA  |

### Commercial data

|                       |               |
|-----------------------|---------------|
| ETIM 8.0              | EC002540      |
| ETIM 7.0              | EC002540      |
| Recupel Type          |               |
| 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                |
|------|---|-------------------------------|---------------------------------|
|      | <b>CSA</b><br>CSA Group                       | CAN/CSA-C22.2 No. 62368-1     | 70216154                        |
|      | <b>EAC</b><br>Brjansker Zertifizierungsstelle | TP TC 004/2011,TP TC 020/2011 | EAC RU C-DE.AM02.B.<br>00089_19 |

#### Declarations of conformity and manufacturer's declarations

| Logo | Approval  | Additional Approval Text | Certificate name |
|------|---|--------------------------|------------------|
|      | <b>EU-Declaration of Conformity</b><br>WAGO GmbH & Co. KG | -                        | -                |

## Downloads Documentation

### Bid Text

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

### Instruction Leaflet

|   |              |               |          |
|---|--------------|---------------|----------|
| Capacitive Buffer module<br>DC 24 V, 40 A | 2019 年6月13 日 | pdf<br>2.2 MB | Download |
|---|--------------|---------------|----------|

### Additional Information

|   |                         |               |          |
|---|-------------------------|---------------|----------|
| Disposal and Recycling<br>Electrical and electronic equipment, Batteries, Packaging | V 1.1.0<br>2022 年8月18 日 | pdf<br>2.2 MB | Download |
|---|-------------------------|---------------|----------|

## CAD/CAE-Data

### CAD data

|                      |  |     |          |
|----------------------|--|-----|----------|
| 2D/3D Models 787-916 |  | URL | Download |
|----------------------|--|-----|----------|

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#### CAE data

|                           |                     |                          |
|---------------------------|---------------------|--------------------------|
| EPLAN Data Portal 787-916 | <a href="#">URL</a> | <a href="#">Download</a> |
|---------------------------|---------------------|--------------------------|

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#### Environmental Product Compliance

##### Compliance Search

|   |                     |                          |
|---|---------------------|--------------------------|
| Environmental Product Compliance 787-916<br>capacitive buffer module; 24 VDC input voltage; 24 VDC output voltage; 40 A output<br>current; Buffer time: 0.3 ... 6.6 s | <a href="#">URL</a> | <a href="#">Download</a> |
|---|---------------------|--------------------------|

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#### Installation Notes

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