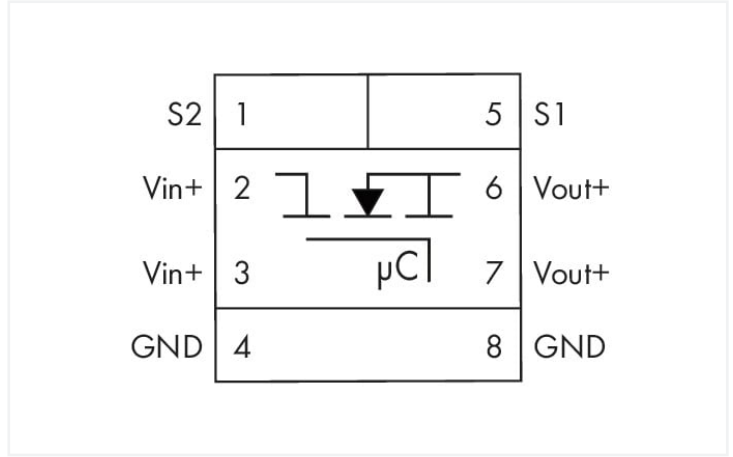
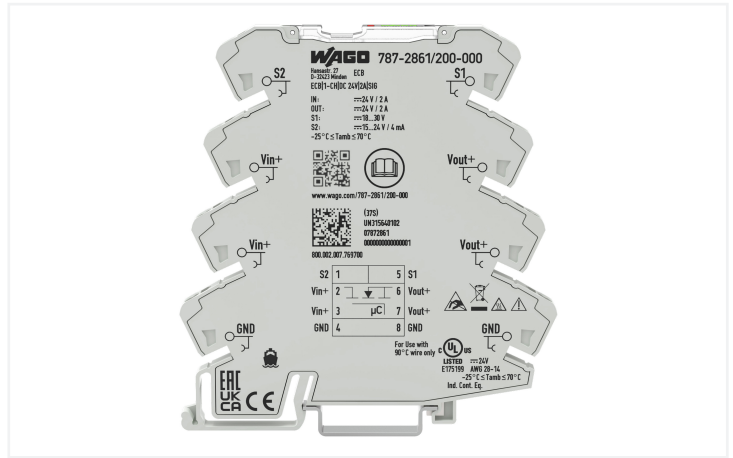
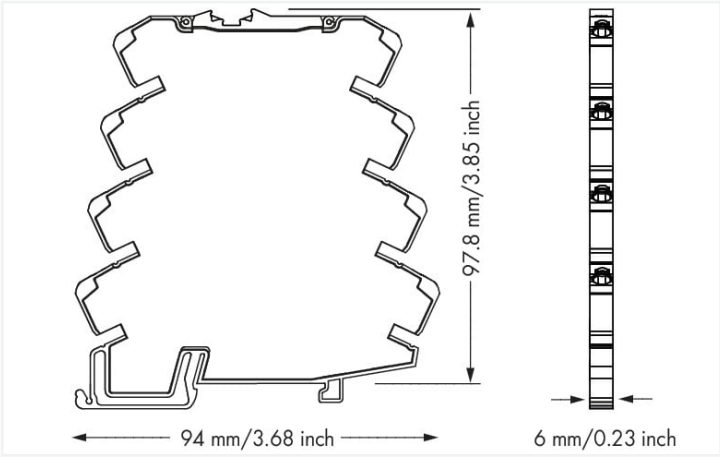


Data Sheet | Item Number: 787-2861/200-000

Electronic circuit breaker; 1-channel; 24 VDC input voltage; 2 A; Signal contact

<https://www.wago.com/787-2861/200-000>





Dimensions in mm

**Features:**

- Space-saving ECB with one channel
- Reliably and safely trips in the event of an overload and short circuit on the secondary side
- Switch-on capacity > 50,000  $\mu\text{F}$
- Enables the use of an economical, standard power supply
- Minimizes wiring via two voltage outputs and maximizes commoning options on both input and output sides (e.g., commoning of the output voltage on 857 and 2857 Series devices)
- Status signal – adjustable as single or group message
- Reset, switch on/off via remote input or local switch
- Prevents power supply overload due to total inrush current thanks to time-delayed switching on during interconnected operation

## Technical data

### Input

|   |                |
|---|----------------|
| Nominal input voltage $U_{i, \text{nom}}$ | DC 24 V        |
| Input voltage range                       | DC 18 ... 30 V |

### Output

|  |  |
|--|--|
| Total number of channels (module)          | 1  |
| Nominal output voltage $U_{o, \text{nom}}$ | 1 x DC 24 V  |
| Output voltage range                       | DC 18 ... 30 V ( $U_e$ – voltage drop)                                   |
| Voltage drop                               | $\leq 25$ mV (2 A)   |
| Nominal output current $I_{o, \text{nom}}$ | 1 x 2 A (fixed setting)  |
| Trip time                                  | 4 ms ... 100 s (load-dependent)  |
| Switch-on capacity                         |  |
| Switch-on behavior                         | Time-delayed channel switching (load-dependent, min. 170 ms/max. 500 ms) |
| Active current limitation                  | No   |
| Current limitation                         | No   |

### Signaling and communication

|                            |  |
|----------------------------|--|
| Signaling                  | 1 x Status LED (green/yellow/red/blue)<br>1 x Control input<br>1 x Active signal output ( $U_r$ , max. 4 mA) |
| Operation status indicator | Green LED (channel OK)<br>Red LED (tripped channel)  |
| Remote input               | 18 ... 30 VDC signal, switches on/off and resets the channel   |

### Efficiency/power losses

|                   |               |
|-------------------|---------------|
| Power loss $P_I$  | $\leq 0.36$ W |
| Efficiency (typ.) | 96 %          |

### Circuit protection

|               |        |
|---------------|--------|
| Internal fuse | T 15 A |
|---------------|--------|

### Safety and protection

|  |                                  |
|--|----------------------------------|
| Isolation voltage (connectors – housing) | DC 0.5 kV                        |
| Protection class                         | III                              |
| Protection type                          | IP20; per EN 60529               |
| Reverse voltage protection               | No                               |
| Pollution degree                         | 2                                |
| Transient suppression (primary)          | Suppressor diode (33 V)          |
| Parallel operation of single channels    | Not permitted                    |
| Series operation                         | No                               |
| MTBF                                     | 1,262,142 h (per MIL-HDBK-217F2) |

### Connection data

|                         |  |
|-------------------------|--|
| Number of jumper slots  | 8  |
| Connection technology   | Push-in CAGE CLAMP®                          |
| WAGO connector          | WAGO 857 Series                              |
| Solid conductor         | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG |
| Fine-stranded conductor | 0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG |
| Strip length            | 9 ... 10 mm / 0.35 ... 0.39 inches           |

### Physical data

|                                   |                       |
|-----------------------------------|-----------------------|
| Width                             | 6 mm / 0.236 inches   |
| Height                            | 94 mm / 3.701 inches  |
| Depth from upper-edge of DIN-rail | 97.8 mm / 3.85 inches |

### Mechanical data

|               |             |
|---------------|-------------|
| Mounting type | DIN-35 rail |
|---------------|-------------|

### Material data

|           |      |
|-----------|------|
| Fire load | 0 MJ |
| Weight    | 34 g |

### Environmental requirements

|                                 |  |
|---------------------------------|--|
| Ambient temperature (operation) | -25 ... +70 °C (Device starts at -40 °C (type-tested)) |
| Ambient temperature (storage)   | -40 ... +85 °C   |
| Relative humidity               | 10 ... 95 % (no condensation permissible)              |
| Derating                        | No derating  |

### Standards and specifications

|                          |   |
|--------------------------|---|
| Conformity marking       | CE  |
| Standards/specifications | EN 61000-6-2<br>EN 61000-6-3<br>UL 61010-2-201<br>DNV |

### Commercial data

|                       |             |
|-----------------------|-------------|
| eCl@ss 10.0           | 27-37-18-02 |
| eCl@ss 9.0            | 27-37-18-02 |
| ETIM 9.0              | EC001440    |
| ETIM 8.0              | EC001440    |
| PU (SPU)              | 1 pcs       |
| Packaging type        | Bag         |
| Country of origin     | CN          |
| Customs tariff number | 85363010900 |

### Environmental Product Compliance

|   |   |
|---|---|
| CAS-No.                                   | 1303-86-2<br>1317-36-8<br>7439-92-1       |
| REACH Candidate List Substance            | Diboron trioxide<br>Lead<br>Lead monoxide |
| RoHS Compliance Status                    | Compliant,With Exemption                  |
| RoHS Exemption                            | 6(c)<br>7(a)<br>7(c)-I<br>7(c)-II         |
| SCIP notification number (Austria)        | 3e85e14b-c7cb-484e-968a-2ce00e576774      |
| SCIP notification number (Belgium)        | 34601d38-5bcb-4302-ab55-a068ea19713e      |
| SCIP notification number (Bulgaria)       | 0c8ceb5c-3f96-41a1-ba70-8a38b9968c27      |
| SCIP notification number (Czech Republic) | d9d408a3-cc8d-4567-8f98-5837064987ac      |
| SCIP notification number (Denmark)        | e5647c56-bb3d-48fd-bea1-0ec1a9381d1e      |
| SCIP notification number (Finland)        | d641fa9f-51f9-46c3-8d1f-5765454b5398      |
| SCIP notification number (France)         | ce96db74-bfb6-4947-b42d-c8f4417af1b1      |
| SCIP notification number (Germany)        | 0c9009c5-5bd8-4318-b0da-90af6312a997      |

**Environmental Product Compliance**

|  |                                      |
|--|--------------------------------------|
| SCIP notification number (Hungary)     | 3f640956-f2c1-4148-ad64-9f4f5d311892 |
| SCIP notification number (Italy)       | 63826b4d-11ed-4e38-864d-63e2bf382ce3 |
| SCIP notification number (Netherlands) | 6e792586-31c3-417f-a7df-5ab99a4793b1 |
| SCIP notification number (Poland)      | 61848ec2-6fea-43f2-b564-38c7daa93927 |
| SCIP notification number (Romania)     | b5755c5c-3521-41b3-a467-6a9e2d8ddbc9 |
| SCIP notification number (Sweden)      | 5b376c8a-42e6-4066-a06e-9a692d5ed504 |

**Approvals / Certificates**

**General approvals** **Declarations of conformity and manufacturer's declarations**



| Approval  | Standard               | Certificate Name                    |
|---|------------------------|-------------------------------------|
| EAC<br>GZO Almaty Standart                                | TP TC 020/2011         | EAC CoC 03081                       |
| UL<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 2367,UL 61010-2-201 | E175199 Vol.3 Sec.2 Series 0787 ECB |

| Approval   | Standard | Certificate Name |
|--|----------|------------------|
| EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | -        | -                |
| UK-Declaration of Conformity<br>WAGO GmbH & Co. KG | -        | -                |

**Approvals for marine applications**



| Approval                | Standard              | Certificate Name |
|-------------------------|-----------------------|------------------|
| DNV<br>DNV Germany GmbH | DNV-CG-0339, Aug.2021 | TAA00001D1       |

**Downloads**

**Environmental Product Compliance**

| Compliance Search  |
|--|
| Environmental Product Compliance<br>787-2861/200-000 <a href="#">↓</a> |

**Documentation**

| Manual                                    |                       |                   |                   |
|---|-----------------------|-------------------|-------------------|
| Product Manual Electronic Circuit Breaker | V 1.3.1<br>16.12.2019 | pdf<br>2933.00 KB | <a href="#">↓</a> |

| Bid Text         |            |                  |                   |
|------------------|------------|------------------|-------------------|
| 787-2861/200-000 | 03.07.2019 | xml<br>7.06 KB   | <a href="#">↓</a> |
| 787-2861/200-000 | 02.07.2019 | docx<br>34.05 KB | <a href="#">↓</a> |

| Instruction Leaflet        |                       |                   |  |
|----------------------------|-----------------------|-------------------|--|
| Electronic Circuit Breaker | V 2.0.0<br>27.02.2023 | pdf<br>3477.29 KB |  |





























| CAD/CAE-Data  |  |
|---|--|
| <b>CAD data</b><br>2D/3D Models<br>787-2861/200-000 | <b>CAE data</b><br>EPLAN Data Portal<br>787-2861/200-000<br><br>ZUKEN Portal<br>787-2861/200-000 |

## 1 Compatible Products

### 1.1 Optional Accessories

#### 1.1.1 Jumper

##### 1.1.1.1 Jumper

|   |   |   |  |
|---|---|---|--|
| <br><a href="#">Item No.: 859-410/000-006</a><br>Jumper; for jumper slot; 10-way; insulated; blue  | <br><a href="#">Item No.: 859-410</a><br>Jumper; for jumper slot; 10-way; insulated; light gray  | <br><a href="#">Item No.: 859-410/000-005</a><br>Jumper; for jumper slot; 10-way; insulated; red  | <br><a href="#">Item No.: 859-410/000-029</a><br>Jumper; for jumper slot; 10-way; insulated; yellow         |
| <br><a href="#">Item No.: 859-402/000-006</a><br>Jumper; for jumper slot; 2-way; insulated; blue | <br><a href="#">Item No.: 859-402</a><br>Jumper; for jumper slot; 2-way; insulated; light gray | <br><a href="#">Item No.: 859-402/000-005</a><br>Jumper; for jumper slot; 2-way; insulated; red  | <br><a href="#">Item No.: 859-402/000-029</a><br>Jumper; for jumper slot; 2-way; insulated; yellow        |
| <br><a href="#">Item No.: 859-403/000-006</a><br>Jumper; for jumper slot; 3-way; insulated; blue | <br><a href="#">Item No.: 859-403</a><br>Jumper; for jumper slot; 3-way; insulated; light gray | <br><a href="#">Item No.: 859-403/000-005</a><br>Jumper; for jumper slot; 3-way; insulated; red | <br><a href="#">Item No.: 859-403/000-029</a><br>Jumper; for jumper slot; 3-way; insulated; yellow        |
| <br><a href="#">Item No.: 859-404/000-006</a><br>Jumper; for jumper slot; 4-way; insulated; blue | <br><a href="#">Item No.: 859-404</a><br>Jumper; for jumper slot; 4-way; insulated; light gray | <br><a href="#">Item No.: 859-404/000-005</a><br>Jumper; for jumper slot; 4-way; insulated; red | <br><a href="#">Item No.: 859-404/000-029</a><br>Jumper; for jumper slot; 4-way; insulated; yellow        |
| <br><a href="#">Item No.: 859-405/000-006</a><br>Jumper; for jumper slot; 5-way; insulated; blue | <br><a href="#">Item No.: 859-405</a><br>Jumper; for jumper slot; 5-way; insulated; light gray | <br><a href="#">Item No.: 859-405/000-005</a><br>Jumper; for jumper slot; 5-way; insulated; red | <br><a href="#">Item No.: 859-405/000-029</a><br>Jumper; for jumper slot; 5-way; insulated; yellow        |
| <br><a href="#">Item No.: 859-406/000-006</a><br>Jumper; for jumper slot; 6-way; insulated; blue | <br><a href="#">Item No.: 859-406</a><br>Jumper; for jumper slot; 6-way; insulated; light gray | <br><a href="#">Item No.: 859-406/000-005</a><br>Jumper; for jumper slot; 6-way; insulated; red  | <br><a href="#">Item No.: 859-406/000-029</a><br>Jumper; for jumper slot; 6-way; insulated; signal yellow |
| <br><a href="#">Item No.: 859-407/000-006</a><br>Jumper; for jumper slot; 7-way; insulated; blue | <br><a href="#">Item No.: 859-407</a><br>Jumper; for jumper slot; 7-way; insulated; light gray | <br><a href="#">Item No.: 859-407/000-005</a><br>Jumper; for jumper slot; 7-way; insulated; red  | <br><a href="#">Item No.: 859-407/000-029</a><br>Jumper; for jumper slot; 7-way; insulated; yellow        |
| <br><a href="#">Item No.: 859-408/000-006</a><br>Jumper; for jumper slot; 8-way; insulated; blue | <br><a href="#">Item No.: 859-408</a><br>Jumper; for jumper slot; 8-way; insulated; light gray | <br><a href="#">Item No.: 859-408/000-005</a><br>Jumper; for jumper slot; 8-way; insulated; red | <br><a href="#">Item No.: 859-408/000-029</a><br>Jumper; for jumper slot; 8-way; insulated; yellow        |

### 1.1.1.1 Jumper



**Item No.: 859-409/000-006**

Jumper; for jumper slot; 9-way; insulated; blue

**Item No.: 859-409**

Jumper; for jumper slot; 9-way; insulated; light gray

**Item No.: 859-409/000-005**

Jumper; for jumper slot; 9-way; insulated; red

**Item No.: 859-409/000-029**

Jumper; for jumper slot; 9-way; insulated; yellow

### 1.1.2 Marking

#### 1.1.2.1 Marker



**Item No.: 793-5501**

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white

**Item No.: 793-502**

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white

**Item No.: 793-566**

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white

**Item No.: 793-503**

WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white



**Item No.: 793-504**

WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white

**Item No.: 793-505**

WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white

**Item No.: 793-506**

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white

**Item No.: 793-501**

WMB marking card; as card; not stretchable; plain; snap-on type; white



**Item No.: 2009-115**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

#### 1.1.2.2 Marking strip



**Item No.: 2009-110**

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

### 1.1.3 Tool

#### 1.1.3.1 Operating tool



**Item No.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured