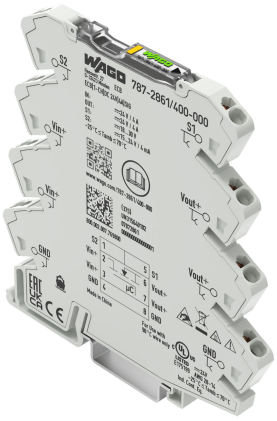
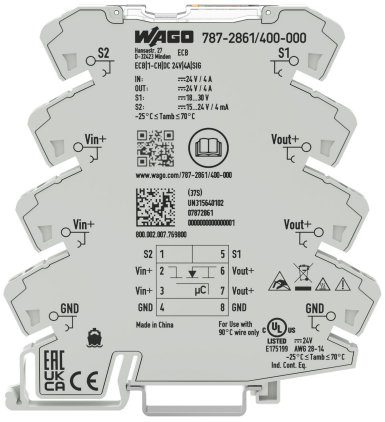
# Data Sheet | Item Number: 787-2861/400-000

Electronic circuit breaker; 1-channel; 24 VDC input voltage; 4 A; Signal contact

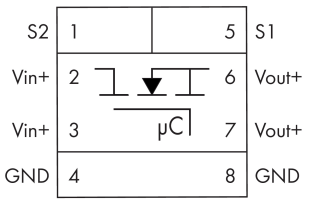
https://www.wago.com/787-2861/400-000

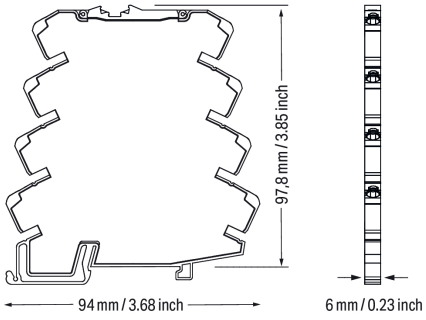









**Features:**

- 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 µF
- 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 $U_{i\,nom}$ | 24 VDC |
| Input voltage range | 18 … 30 VDC |

### Output

| | |
|---|---|
| Total number of channels (module) | 1 |
| Nominal output voltage $U_{o\,nom}$ | 1 x 24 VDC |
| Output voltage range | 18 … 30 VDC ($U_e$ - voltage drop) |
| Voltage drop | ≤ 25 mV (4 A) |
| Nominal output current $I_{o\,nom}$ | 1 x 4 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 ($U_i$, 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 $P_l$ | ≤ 0.36 W |
| Efficiency (typ.) | 96 % |

### Circuit Protection

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

### Safety and protection

| | |
|---|---|
| Isolation voltage (connectors – housing) | 0.5 kVDC |
| 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 | 1,258,733 h (per MIL-HDBK-217F2) |

## Connection Data

| | |
|---|---|
| Number of jumper slots | 8 |

### Connection 1

| | |
|---|---|
| Connection technology | Push-in CAGE CLAMP® |
| WAGO connector | WAGO 857 Series |
| Solid conductor | 0.08 … 2.5 mm² / 28 … 14 AWG |
| Fine-stranded conductor | 0.34 … 2.5 mm² / 22 … 14 AWG |
| Strip length | 9 … 10 mm / 0.35 … 0.39 inches |


Continued on next page

## 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

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

| | |
|---|---|
| PU (SPU) | 1 pcs |
| Packaging type | Bag |
| Country of origin | CN |
| Customs tariff number | 85362010900 |

## Product Classification

| | |
|---|---|
| UNSPSC | 39121634 |
| eCl@ss 10.0 | 27-37-18-02 |
| eCl@ss 9.0 | 27-37-18-02 |
| ETIM 9.0 | EC001440 |
| ETIM 10.0 | EC001440 |
| ECCN | NO US CLASSIFICATION |

## 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) | c2ff52e8-e67d-4827-ad40-f376e0d560e0 |
| SCIP notification number (Belgium) | b564c11f-097e-473e-a2af-daef0e6ffe12 |
| SCIP notification number (Bulgaria) | 6746d39f-81e8-4e38-90bb-5eb4838decc2 |


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## Environmental Product Compliance

| | |
|---|---|
| SCIP notification number (Czech Republic) | b8eb40d0-27ae-4ad0-a085-60457aba789c |
| SCIP notification number (Denmark) | 2b9e5d42-db92-4722-bd91-b86de8410560 |
| SCIP notification number (Finland) | 1a79cb1b-165c-4961-8f6a-bf8080fcedac |
| SCIP notification number (France) | 25002ba4-4dfb-40ec-920c-e6b2d55f69b8 |
| SCIP notification number (Germany) | cedcc140-ac9a-48eb-b7c1-7d3d70904da5 |
| SCIP notification number (Hungary) | ce11c103-a8e7-4200-bea2-17cd013b6abe |
| SCIP notification number (Italy) | fdc99228-172f-4a25-8a1d-2f9d06d4dcca |
| SCIP notification number (Netherlands) | 318465f7-58d2-4f2e-8345-d2d3d9c7045a |
| SCIP notification number (Poland) | 37c24cc8-e412-4b5d-95fc-b101d0e96c4c |
| SCIP notification number (Romania) | f852b938-cd98-4122-9663-afd8dc0b2049 |
| SCIP notification number (Sweden) | a0d501f1-4bd1-4599-bb53-300af64f5722 |

## Approvals / Certificates

### General approvals

| 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 |

### Declarations of conformity and manufacturer's declarations

| 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
787-2861/400-000

## Documentation

### Manual

| | | | |
|---|---|---|---|
| Product Manual Electronic Circuit Breaker | V 1.3.1<br>16.12.2019 | pdf<br>2933.00 KB | |

### Bid Text

| | | | |
|---|---|---|---|
| 787-2861/400-000 | 03.07.2019 | xml<br>7.05 KB | |
| 787-2861/400-000 | 02.07.2019 | docx<br>33.75 KB | |

### Instruction Leaflet

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

## CAD/CAE-Data

### CAD data

2D/3D Models
787-2861/400-000

### CAE data

EPLAN Data Portal
787-2861/400-000

ZUKEN Portal
787-2861/400-000

# 1 Compatible Products

## 1.1 Optional Accessories

### 1.1.1 Jumper

#### 1.1.1.1 Jumper



Item No.: 859-410/000-006
Jumper; for jumper slot; 10-way; insulated; blue



Item No.: 859-410
Jumper; for jumper slot; 10-way; insulated; light gray



Item No.: 859-410/000-005
Jumper; for jumper slot; 10-way; insulated; red



Item No.: 859-410/000-029
Jumper; for jumper slot; 10-way; insulated; yellow



Item No.: 859-402/000-006
Jumper; for jumper slot; 2-way; insulated; blue



Item No.: 859-402
Jumper; for jumper slot; 2-way; insulated; light gray



Item No.: 859-402/000-005
Jumper; for jumper slot; 2-way; insulated; red



Item No.: 859-402/000-029
Jumper; for jumper slot; 2-way; insulated; yellow



Item No.: 859-403/000-006
Jumper; for jumper slot; 3-way; insulated; blue



Item No.: 859-403
Jumper; for jumper slot; 3-way; insulated; light gray



Item No.: 859-403/000-005
Jumper; for jumper slot; 3-way; insulated; red



Item No.: 859-403/000-029
Jumper; for jumper slot; 3-way; insulated; yellow



Item No.: 859-404/000-006
Jumper; for jumper slot; 4-way; insulated; blue



Item No.: 859-404
Jumper; for jumper slot; 4-way; insulated; light gray



Item No.: 859-404/000-005
Jumper; for jumper slot; 4-way; insulated; red



Item No.: 859-404/000-029
Jumper; for jumper slot; 4-way; insulated; yellow



Item No.: 859-405/000-006
Jumper; for jumper slot; 5-way; insulated; blue



Item No.: 859-405
Jumper; for jumper slot; 5-way; insulated; light gray



Item No.: 859-405/000-005
Jumper; for jumper slot; 5-way; insulated; red



Item No.: 859-405/000-029
Jumper; for jumper slot; 5-way; insulated; yellow



Item No.: 859-406/000-006
Jumper; for jumper slot; 6-way; insulated; blue



Item No.: 859-406
Jumper; for jumper slot; 6-way; insulated; light gray



Item No.: 859-406/000-005
Jumper; for jumper slot; 6-way; insulated; red



Item No.: 859-406/000-029
Jumper; for jumper slot; 6-way; insulated; yellow


Continued on next page

#### 1.1.1.1 Jumper



Item No.: 859-407/000-006
Jumper; for jumper slot; 7-way; insulated; blue



Item No.: 859-407
Jumper; for jumper slot; 7-way; insulated; light gray



Item No.: 859-407/000-005
Jumper; for jumper slot; 7-way; insulated; red



Item No.: 859-407/000-029
Jumper; for jumper slot; 7-way; insulated; yellow



Item No.: 859-408/000-006
Jumper; for jumper slot; 8-way; insulated; blue



Item No.: 859-408
Jumper; for jumper slot; 8-way; insulated; light gray



Item No.: 859-408/000-005
Jumper; for jumper slot; 8-way; insulated; red



Item No.: 859-408/000-029
Jumper; for jumper slot; 8-way; insulated; yellow



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