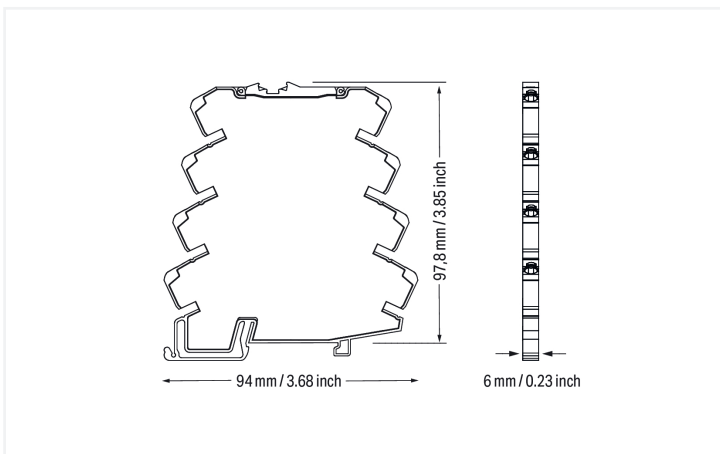
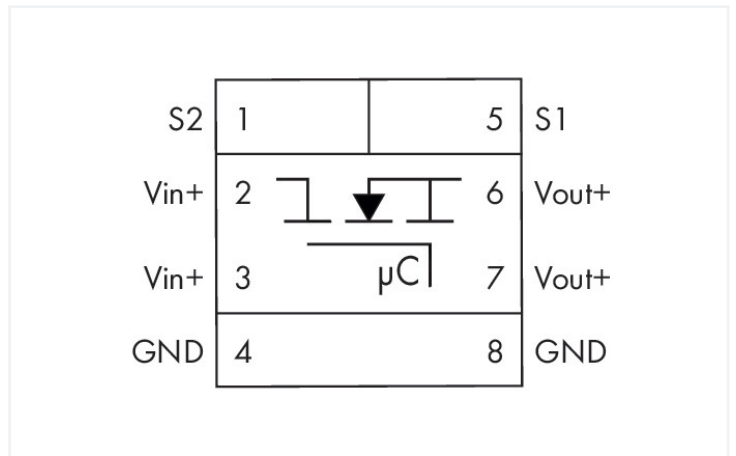
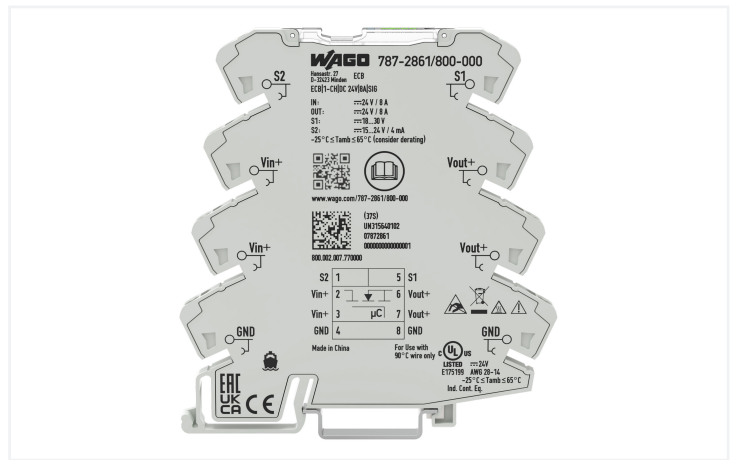


Data Sheet | Item Number: 787-2861/800-000

Electronic circuit breaker; 1-channel; 24 VDC input voltage; 8 A; Signal contact

<https://www.wago.com/787-2861/800-000>



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 | | Output | |
|---|---------------|--|--|
| Nominal input voltage $U_{i, \text{nom}}$ | 24 VDC | Total number of channels (module) | 1 |
| Input voltage range | 18 ... 30 VDC | Nominal output voltage $U_{o, \text{nom}}$ | 1 x 24 VDC |
| | | Output voltage range | 18 ... 30 VDC (U_e – voltage drop) |
| | | Voltage drop | ≤ 25 mV (8 A) |
| | | Nominal output current $I_{o, \text{nom}}$ | 1 x 8 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) 1 x Control input 1 x Active signal output (U_i , max. 4 mA) |
| Operation status indicator | Green LED (channel OK) Red LED (tripped channel) |
| Remote input | 18 ... 30 VDC signal, switches on/off and resets the channel |

Efficiency/Power Losses

| | |
|-------------------|---------------|
| Power loss P_1 | ≤ 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 | 1,245,816 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 mm ² / 28 ... 14 AWG |
| | | Fine-stranded conductor | 0.34 ... 2.5 mm ² / 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 ... +65 °C (Device starts at -40 °C (type-tested); derating must be observed) |
| Ambient temperature (storage) | -40 ... +85 °C |
| Relative humidity | 10 ... 95 % (no condensation permissible) |
| Derating | See instruction manual |

Standards and Specifications

| | |
|--------------------------|---|
| Conformity marking | CE |
| Standards/specifications | EN 61000-6-2 EN 61000-6-3 UL 61010-2-201 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 1317-36-8 7439-92-1 |
| REACH Candidate List Substance | Diboron trioxide Lead Lead monoxide |
| RoHS Compliance Status | Compliant,With Exemption |
| RoHS Exemption | 6(c) 7(a) 7(c)-I 7(c)-II |
| SCIP notification number (Austria) | 7a18a570-f7d4-4ce3-a4df-aaeb67782ef |
| SCIP notification number (Belgium) | a04d387a-8a2d-4677-8d3d-bf04041274ca |
| SCIP notification number (Bulgaria) | c18a7088-f04c-41f1-84dc-6949842474c4 |
| SCIP notification number (Czech Republic) | 58a1c0d9-ee95-49cc-8906-53cd0ce1564e |
| SCIP notification number (Denmark) | 5474789e-7e27-4632-9ec1-fda2f22e626a |
| SCIP notification number (Finland) | 5479a095-fce5-4950-b895-579956bc39ec |
| SCIP notification number (France) | 5e2f5b43-1a9c-4dbc-9be6-fb40530f4cda |
| SCIP notification number (Germany) | 49a26334-defd-4666-a59c-86669edb7ae5 |
| SCIP notification number (Hungary) | 43b90980-b448-468b-85e5-1c62afbc6716 |
| SCIP notification number (Italy) | be56d0a5-5fdd-457e-bc2f-00250095710d |
| SCIP notification number (Netherlands) | 86bd52f2-1b64-4433-b6d8-f75995b4084b |
| SCIP notification number (Poland) | 9c070fdd-2613-44a5-b01c-47186f8e4942 |
| SCIP notification number (Romania) | 179ce956-5657-46ff-8826-fb86ce0a2b08 |
| SCIP notification number (Sweden) | 6dca1f8c-14e8-4f8b-9ac5-ad5b3e6e1b45 |

Approvals / Certificates

| General approvals | | | Declarations of conformity and manufacturer's declarations | | |
|---|------------------------|--|--|----------|------------------|
| | | | | | |
| Approval | Standard | Certificate Name | Approval | Standard | Certificate Name |
| EAC GZO Almaty Standart | TP TC 020/2011 | EAC CoC 03081 | EU-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |
| UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS) | UL 2367,UL 61010-2-201 | E175199 Vol.3 Sec.2 Se- ries 0787 ECB | UK-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |

Approvals for marine applications

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

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
787-2861/800-000



Documentation

Manual

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

Bid Text

| | | | |
|------------------|------------|------------------|--|
| 787-2861/800-000 | 03.07.2019 | xml 7.09 KB | |
| 787-2861/800-000 | 02.07.2019 | docx 33.84 KB | |

Instruction Leaflet

| | | | |
|----------------------------|-----------------------|-------------------|--|
| Electronic Circuit Breaker | V 2.0.0 27.02.2023 | pdf 3477.29 KB | |
|----------------------------|-----------------------|-------------------|--|

CAD/CAE-Data

CAD data

| | |
|----------------------------------|--|
| 2D/3D Models 787-2861/800-000 | |
|----------------------------------|--|

CAE data

| | |
|---------------------------------------|--|
| EPLAN Data Portal 787-2861/800-000 | |
| ZUKEN Portal 787-2861/800-000 | |

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

1.1.1.1 Jumper



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



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