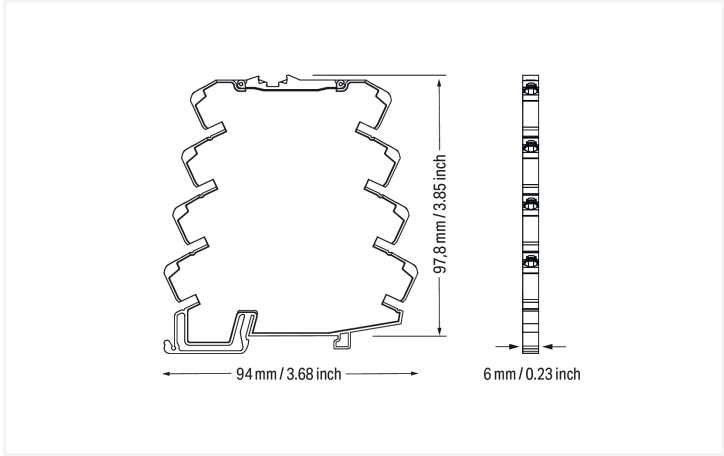
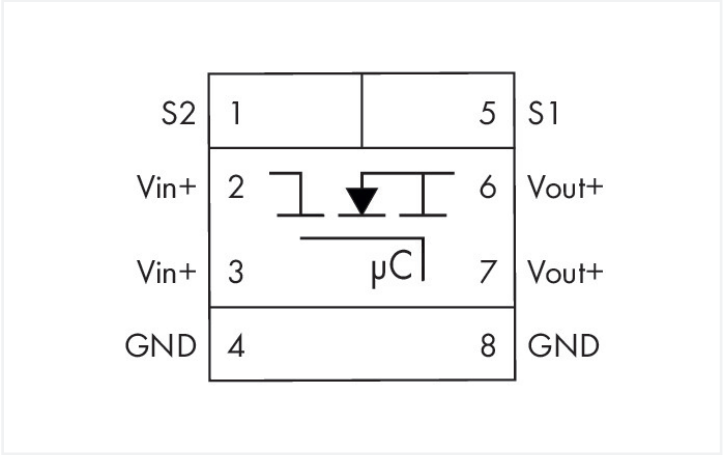
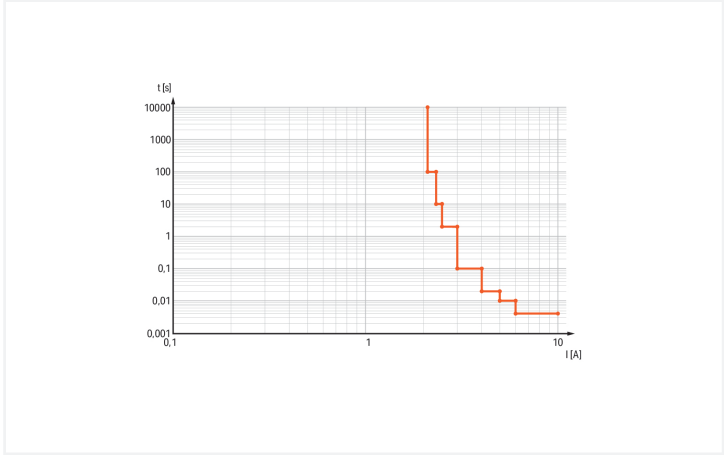
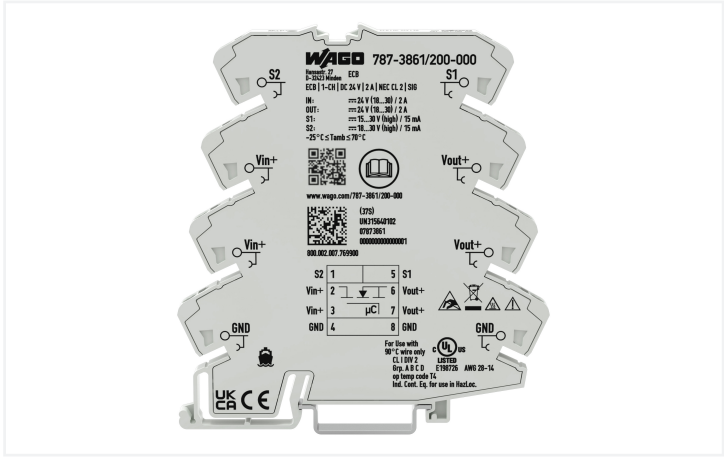
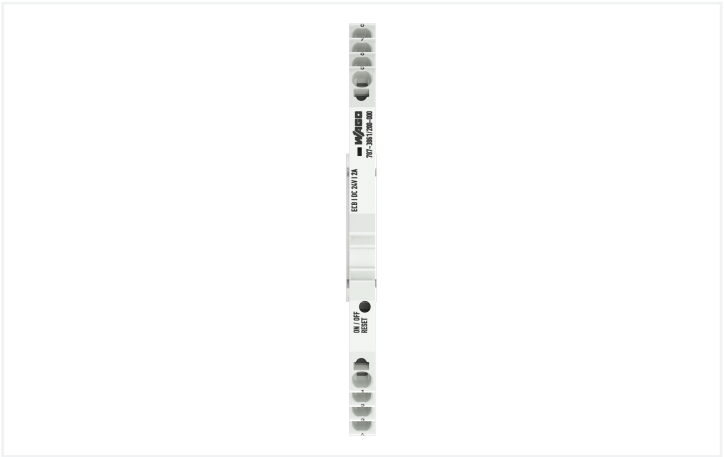






Features:

- 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

| Notes |                                                                                                                                             |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Note  | The device is designed for use in SELV circuits. Depending on the output current, please use the approved minimum conductor cross-sections. |

| Technical data                     |               |                                     |                                                                          |
|------------------------------------|---------------|-------------------------------------|--------------------------------------------------------------------------|
| Input                              |               | Output                              |                                                                          |
| Nominal input voltage $U_{i\,nom}$ | 24 VDC        | Total number of channels (module)   | 1                                                                        |
| Input voltage range                | 18 ... 30 VDC | Nominal output voltage $U_{o\,nom}$ | 1 x 24 VDC                                                               |
|                                    |               | Output voltage range                | 18 ... 30 VDC ( $U_e$ - voltage drop)                                    |
|                                    |               | Voltage drop                        | ≤ 160 mV                                                                 |
|                                    |               | Nominal output current $I_{o\,nom}$ | 1 x 2 A (fixed setting)                                                  |
|                                    |               | Default Setting                     | switched off                                                             |
|                                    |               | Trip time                           | 4 ms ... 100 s (load-dependent)                                          |
|                                    |               | Switch-on capacity                  |                                                                          |
|                                    |               | Switch-on behavior                  | Time-delayed channel switching (load-dependent, min. 0 ms / max. 500 ms) |
|                                    |               | Switch-on threshold                 | DC 20.3 V                                                                |

| Signaling and Communication |                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------|
| Signaling                   | 1 x Status LED (green/yellow/red)<br>1 x Signal output (18 ... 30 VDC, max. 0.015 A), default setting: tripped |
| Operation status indicator  | Green LED (channel OK)<br>Red LED (channel switched off)                                                       |
| Remote input                | 1 x Control input (15 ... 30 VDC (active high); 0 ... 5 VDC (active low); max. 0.015 A)                        |

| Efficiency/Power Losses |                   |
|-------------------------|-------------------|
| Power loss $P_l$        | ≤ 0.4 W (no load) |
| Efficiency (typ.)       | 98 %              |

| Circuit Protection |       |
|--------------------|-------|
| Internal fuse      | T 8 A |

| Safety and protection                    |                         |                              |    |
|------------------------------------------|-------------------------|------------------------------|----|
| Isolation voltage (connectors – housing) | 1.5 kVDC                | Insulation coordination (UL) |    |
| Protection class                         | III                     | Overvoltage category         | II |
| Protection type                          | IP20; per EN 60529      | Pollution degree             | 2  |
| Reverse voltage protection               | No                      |                              |    |
| Transient suppression (primary)          | Suppressor diode (33 V) |                              |    |
| Parallel operation of single channels    | Not permitted           |                              |    |
| Series operation                         | No                      |                              |    |
| MTBF                                     | 1,168,394 h             |                              |    |



| Insulation coordination |    |
|-------------------------|----|
| Overvoltage category    | II |
| Pollution degree        | 2  |

| 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 / 26 ... 14 AWG                                                                                                              |
|                        |   | Fine-stranded conductor                                                                                                                       |
|                        |   | 0.34 ... 2.5 mm² / 22 ... 14 AWG                                                                                                              |
|                        |   | Strip length                                                                                                                                  |
|                        |   | 9 ... 10 mm / 0.35 ... 0.39 inches                                                                                                            |
|                        |   | Note (conductor cross-section)                                                                                                                |
|                        |   | Depending on the output current, use the conductor cross-sections tested and approved by UL:<br>26 ... 14 AWG (0.5 A);<br>22 ... 14 AWG (2 A) |

| 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     |  | 0.568 MJ |
| Weight        |  | 55.6 g   |

| Environmental requirements      |  |                                           |
|---------------------------------|--|-------------------------------------------|
| Ambient temperature (operation) |  | -25 ... +70 °C                            |
| Ambient temperature (storage)   |  | -40 ... +85 °C                            |
| Relative humidity               |  | 10 ... 95 % (no condensation permissible) |
| Derating                        |  | No derating                               |
| Operating altitude              |  | ≤ 2000 m (a.s.l.)                         |

| Standards and Specifications |  |                                                                  |
|------------------------------|--|------------------------------------------------------------------|
| Conformity marking           |  | CE; UKCA                                                         |
| Standards/specifications     |  | EN 61000-6-2<br>EN 61000-6-3<br>UL 61010-2-201<br>DNV<br>UL 2367 |



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

| Product Classification |  |                      |
|------------------------|--|----------------------|
| UNSPSC                 |  | 39121634             |
| ETIM 9.0               |  | EC001440             |
| ETIM 10.0              |  | EC001440             |
| ECCN                   |  | NO US CLASSIFICATION |

| Environmental Product Compliance |  |                                   |
|----------------------------------|--|-----------------------------------|
| RoHS Compliance Status           |  | Compliant,With Exemption          |
| RoHS Exemption                   |  | 6(c)<br>7(a)<br>7(c)-I<br>7(c)-II |

Approvals / Certificates

General approvals



| Approval                                                  | Standard       | Certificate Name       |
|-----------------------------------------------------------|----------------|------------------------|
| UL<br>Underwriters Laboratories Inc. (ORDINARY LOCATIONS) | UL 61010-2-201 | UL E175199 Vol.3 Sec.5 |
| UR<br>Underwriters Laboratories Inc.                      | -              | E175199                |

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       |

Approvals for hazardous areas



| Approval                                                   | Standard  | Certificate Name |
|------------------------------------------------------------|-----------|------------------|
| UL<br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | UL 121201 | E198726          |



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance787-3861/200-000

Documentation

Manual

Product Manual Electronic circuit breakerV 1.0.025.03.2024pdf7539.41 KB

Instruction Leaflet

Electronic Circuit BreakerV 1.1.111.09.2023pdf2491.12 KB

CAD/CAE-Data

CAD data

2D/3D Models787-3861/200-000

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.: 859-402/000-029  
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



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



1.1.1.1 Jumper



**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 Potential distribution

1.1.3.1 Potential Distribution Module



**Item No.: 787-3861/000-1000**  
Potential distribution module; 1 potential; with 8 clamping points 0V; Conductor cross-section up to 2.5 mm<sup>2</sup>



**Item No.: 787-3861/000-2000**  
Potential distribution module; 1 potential; with 8 clamping points 24V; Conductor cross-section up to 2.5 mm<sup>2</sup>



**Item No.: 787-3861/000-3000**  
Potential distribution module; 2 potentials; with 4 clamping points each (0V / 24V); Conductor cross-section up to 2.5 mm<sup>2</sup>



1.1.4 Tool

1.1.4.1 Operating tool



Item No.: 210-720  
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured