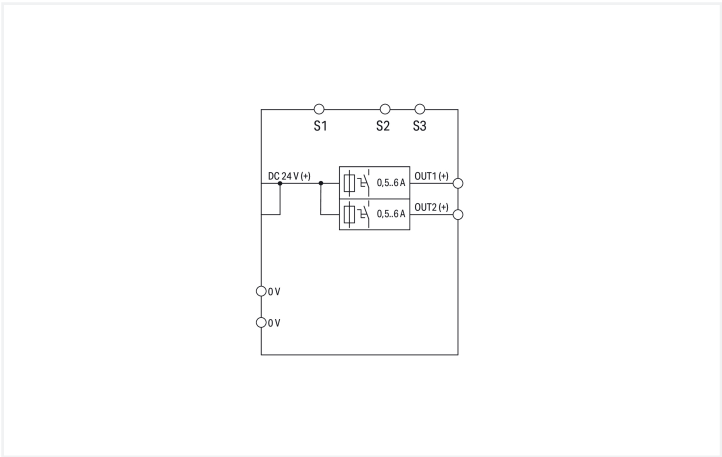
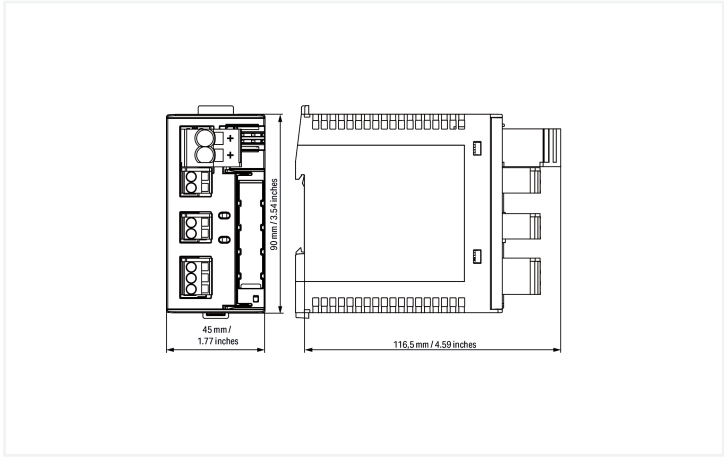




Similar to illustration



Features:

- Space-saving ECB with two channels
- Nominal current: 0.5 ... 6 A (adjustable for each channel via sealable selector switch)
- Active current limitation
- Switch-on capacity > 65000 µF per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

| Technical data                     |               |                                     |                                                                                 |
|------------------------------------|---------------|-------------------------------------|---------------------------------------------------------------------------------|
| Input                              |               | Output                              |                                                                                 |
| Nominal input voltage $U_{i\,nom}$ | 24 VDC        | Total number of channels (module)   | 2                                                                               |
| Input voltage range                | 18 ... 30 VDC | Nominal output voltage $U_{o\,nom}$ | 2 x 24 VDC                                                                      |
|                                    |               | Output voltage range                | 18 ... 30 VDC ( $U_e$ – voltage drop)                                           |
|                                    |               | Voltage drop                        | ≤ 145 mV (6 A) (Input (+))                                                      |
|                                    |               | Nominal output current $I_{o\,nom}$ | 2 x 0.5 / 1 / 2 / 3 / 4 / 6 A (adjustable for each channel via selector switch) |



| Output                    |                                                                        |
|---------------------------|------------------------------------------------------------------------|
| Default Setting           | DC 6 A; switched on                                                    |
| Trip time                 | 16 ms ... 5 s (load-dependent)                                         |
| Switch-on capacity        |                                                                        |
| Switch-on behavior        | Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s) |
| Active current limitation | Yes                                                                    |
| Current limitation        | 1.7 x I <sub>o nom</sub> (typ.)                                        |

| Efficiency/Power Losses   |                             |
|---------------------------|-----------------------------|
| Power loss P <sub>I</sub> | ≤ 0.55 W; ≤ 2.5 W (2 x 6 A) |
| Efficiency (typ.)         | 99 %                        |

| Signaling and Communication |                                                                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| Signaling                   | 2 x LED (green/red/orange)<br>1 x Remote control input (S1)<br>2 x Active signal output (S2; S3)                                           |
| Operation status indicator  | Green LED (channel OK)<br>Red LED (tripped channel)                                                                                        |
| Remote input                | Reactivation of all tripped channels via 15 ... 30 VDC pulse for min. 500 ms<br>Switching on/off any number of channels via pulse sequence |

| Circuit Protection |                    |
|--------------------|--------------------|
| Internal fuse      | T 15 A per channel |

| Safety and protection                    |  |                             |
|------------------------------------------|--|-----------------------------|
| Isolation voltage (connectors – housing) |  | 0.5 kVDC                    |
| Protection class                         |  | III                         |
| Protection type                          |  | IP20; per EN 60529          |
| Reverse voltage protection               |  | No                          |
| Resistance to reverse feed               |  | ≤ 35 VDC                    |
| Pollution degree                         |  | 2                           |
| Transient suppression (primary)          |  | Suppressor diode (33 V)     |
| Parallel operation of single channels    |  | Not permitted               |
| Series operation                         |  | No                          |
| MTBF                                     |  | > 500,000 h (per IEC 61709) |

| Connection Data         |                                     |                         |                                   |
|-------------------------|-------------------------------------|-------------------------|-----------------------------------|
| Connection 1            |                                     | Connection 2            |                                   |
| Connection type         | Input (+)                           | Connection type         | Input (–); output; signaling      |
| Connection technology   | Push-in CAGE CLAMP®                 | Connection technology   | CAGE CLAMP®                       |
| WAGO connector          | WAGO 831 Series                     | WAGO connector          | WAGO 721 Series                   |
| Solid conductor         | 0.5 ... 10 mm² / 20 ... 8 AWG       | Solid conductor         | 0.08 ... 2.5 mm² / 28 ... 12 AWG  |
| Fine-stranded conductor | 0.5 ... 10 mm² / 20 ... 8 AWG       | Fine-stranded conductor | 0.08 ... 2.5 mm² / 28 ... 12 AWG  |
| Strip length            | 13 ... 15 mm / 0.51 ... 0.59 inches | Strip length            | 8 ... 9 mm / 0.31 ... 0.35 inches |

| Physical data                     |                         |
|-----------------------------------|-------------------------|
| Width                             | 45 mm / 1.772 inches    |
| Height                            | 90 mm / 3.543 inches    |
| Depth from upper-edge of DIN-rail | 115.5 mm / 4.547 inches |

| Mechanical data |             |
|-----------------|-------------|
| Mounting type   | DIN-35 rail |



| Material data |       |
|---------------|-------|
| Fire load     | 0 MJ  |
| Weight        | 170 g |

| Environmental requirements      |                                          |
|---------------------------------|------------------------------------------|
| Ambient temperature (operation) | -25 ... +70 °C                           |
| Ambient temperature (storage)   | -25 ... +85 °C                           |
| Relative humidity               | 5 ... 96 % (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 508<br>UL 2367<br>DNV |

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

| Product Classification |                      |
|------------------------|----------------------|
| UNSPSC                 | 39121601             |
| 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 |                         |
|----------------------------------|-------------------------|
| RoHS Compliance Status           | Compliant, No Exemption |

| 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. | UL 508         | E255817                                                    |

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



Approvals for marine applications



| Approval         | Standard | Certificate Name |
|------------------|----------|------------------|
| DNV<br>DNV GL SE | -        | TAA0000281       |

Downloads

Environmental Product Compliance

| Compliance Search                                     |
|-------------------------------------------------------|
| Environmental Product Compliance<br>787-1662/006-1000 |



Documentation

| Manual                                         |
|------------------------------------------------|
| Product Manual Elec-<br>tronic Circuit Breaker |

V 1.0.0

pdf  
1248.37 KB



| Bid Text          |            |                  |                                                                                                     |
|-------------------|------------|------------------|-----------------------------------------------------------------------------------------------------|
| 787-1662/006-1000 | 03.07.2019 | xml<br>7.19 KB   | <a href="#"></a> |
| 787-1662/006-1000 | 02.07.2019 | docx<br>20.50 KB | <a href="#"></a> |

| Instruction Leaflet               |
|-----------------------------------|
| Elektronische Schutz-<br>schalter |

pdf  
671.88 KB



Application Notes

| Application Note e!COCKPIT                              |
|---------------------------------------------------------|
| e!COCKPIT Application<br>Note WagoAppFuse<br>(a2019001) |

2021-11-08  
06.12.2021

pdf  
548.17 KB



| Application note SIEMENS                                           |
|--------------------------------------------------------------------|
| Elektronische Schutz-<br>schalter Serie 787 ab<br>FW2.24 (a500371) |

1.0.0  
14.02.2017

zip  
13109.22 KB



CAD/CAE-Data

| CAD data                          |
|-----------------------------------|
| 2D/3D Models<br>787-1662/006-1000 |



| CAE data                               |
|----------------------------------------|
| EPLAN Data Portal<br>787-1662/006-1000 |
| WSCAD Universe<br>787-1662/006-1000    |



Libraries

| Library                                |                     |                  |                                                                                   |
|----------------------------------------|---------------------|------------------|-----------------------------------------------------------------------------------|
| Anbindung Stromver-sorgungen Serie 787 | 1.0.0<br>28.08.2017 | zip<br>340.24 KB |  |
| Anbindung Stromver-sorgungen Serie 787 | 1.3.0<br>14.05.2014 | zip<br>549.48 KB |  |

1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 Marker



**Item No.: 2009-145**  
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white



**Item No.: 248-501**  
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white



**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.: 793-501**  
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

1.1.1.2 Marking strip



**Item No.: 2009-110**  
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white



**Item No.: 210-831**  
Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white



**Item No.: 210-832**  
Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

1.1.2 Tool

1.1.2.1 Operating tool



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



**Item No.: 210-721**  
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured



**Item No.: 210-769**  
SCREWDRIVER; green