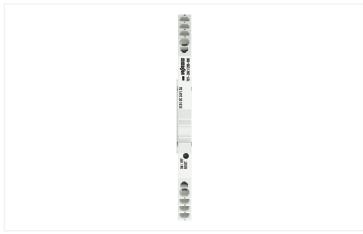
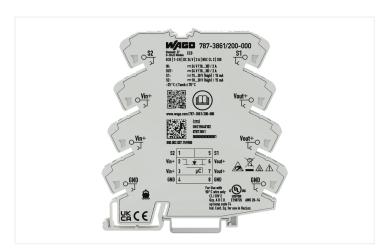
Electronic circuit breaker; 1-channel; 24 VDC input voltage; 2 A; Signal contact

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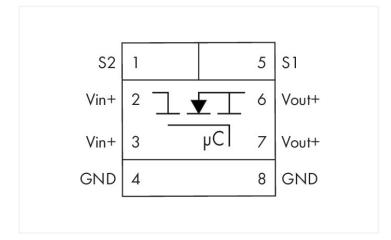


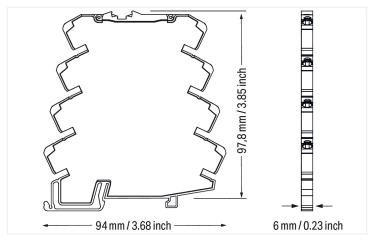




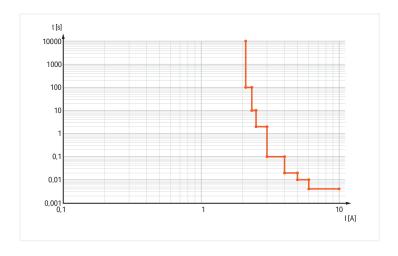












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## Features:

- 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.



Tec		

Input	
Nominal input voltage U <sub>i nom</sub>	24 VDC
Input voltage range	18 30 VDC

Output	
Total number of channels (module)	1
Nominal output voltage U <sub>o nom</sub>	1 x 24 VDC
Output voltage range	18 30 VDC (U <sub>e</sub> - voltage drop)
Voltage drop	≤ 160 mV
Nominal output current I <sub>o nom</sub>	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)

Signaling and communication	
Signaling	1 x Status LED (green/yellow/red) 1 x Signal output (18 30 VDC, max. 0.015 A), Default setting: triggered
Operation status indicator	Green LED (channel OK) 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)

ad)
nd)

Circuit protection	
Internal fuse	T8A

Safety and protection	
Isolation voltage (connectors – housing)	1.5 kVDC
Protection class	III
Protection type	IP20; per EN 60529
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 (UL)	
Overvoltage category	II
Pollution degree	2

Insulation coordination	
Overvoltage category	II
Pollution degree	2

onnection 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

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## Connection 1

Note (conductor cross-section)

Depending on the output current, use the conductor cross-sections tested and ap-

proved by UL: 26 ... 14 AWG (0.5 A); 22 ... 14 AWG (2 A)

Physical data	
Width	6 mm / 0.236 inches
Height	94 mm / 3.701 inches
Denth from unner-edge of DIN-rail	97.8 mm / 3.85 inches

Mechanical data	
Mounting type	DIN-35 rail

Material data	
Fire load	0.631 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 EN 61000-6-3 UL 61010-2-201 DNV UL 2367

Commercial data	
PU (SPU)	1 pcs
Packaging type	Bag
Country of origin	IN
Customs tariff number	85363010000

Product classification	
UNSPSC	39121634
ETIM 9.0	EC001440
ETIM 8.0	EC001440
ECCN	NO US CLASSIFICATION

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## **Environmental Product Compliance**

RoHS Compliance Status

RoHS Exemption

Compliant, With Exemption

6(c

7(a)

7(c)-l

7(c)-II

## Approvals / Certificates

### General approvals





Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS)	UL 61010-2-201	UL E175199 Vol.3 Sec.5
UR Underwriters Laboratories Inc.	-	E175199

### Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

## Approvals for marine applications



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

## Approvals for hazardous areas



Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (HAZARDOUS LOCA- TIONS)	UL 121201	E198726

## Downloads

## **Environmental Product Compliance**

## Compliance Search

Environmental Product Compliance 787-3861/200-000



## Documentation

Manual

Product Manual Electronic circuit breaker

V 1.0.0 25.03.2024 pdf 7539.41 KB Instruction Leaflet

Electronic Circuit Breaker

V 1.1.1 11.09.2023 pdf 2491.12 KB





#### CAD/CAE-Data

CAD data

2D/3D Models 787-3861/200-000

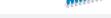


## 1 Compatible Products

#### 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.: 859-402/000-006 Jumper; for jumper slot; 2-way; insulated;

blue



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



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

light gray

Item No.: 859-405

Jumper; for jumper slot; 5-way; insulated; light gray

Item No.: 859-406

Jumper; for jumper slot; 6-way; insulated; light gray

Item No.: 859-407

Jumper; for jumper slot; 7-way; insulated; light gray



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



Item No.: 859-409 Jumper; for jumper slot; 9-way; insulated; light gray

Item No.: 859-408/000-005

Item No.: 859-410

Item No.: 859-402

Item No.: 859-403/000-005

Item No.: 859-404/000-005

Item No.: 859-405/000-005

Item No.: 859-406/000-005

Item No.: 859-407/000-005

light gray

red

red

red

red

red

ted; light gray

Jumper; for jumper slot; 10-way; insula-

Jumper; for jumper slot; 2-way; insulated;

Jumper; for jumper slot; 3-way; insulated;

Jumper; for jumper slot; 4-way; insulated;

Jumper; for jumper slot; 5-way; insulated;

Jumper; for jumper slot; 6-way; insulated;

Jumper; for jumper slot; 7-way; insulated;

Jumper; for jumper slot; 8-way; insulated; red

Item No.: 859-409/000-005

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

Jumper; for jumper slot; 8-way; insulated; yellow

Item No.: 859-408/000-029

Item No.: 859-409/000-029 Jumper; for jumper slot; 9-way; insulated;

vellow



ted; yellow

blue

blue

Item No.: 859-410/000-029 Item No.: 859-410/000-005 Jumper; for jumper slot; 10-way; insula-

Jumper; for jumper slot; 10-way; insulated: red

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

yellow

Item No.: 859-403/000-029

Jumper: for jumper slot: 3-way: insulated: yellow

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

Jumper; for jumper slot; 5-way; insulated;

Jumper; for jumper slot; 6-way; insulated;

Jumper; for jumper slot; 7-way; insulated;

Item No.: 859-405/000-029

Item No.: 859-406/000-029

Item No.: 859-407/000-029

yellow

yellow

yellow

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

Item No.: 859-403/000-006

Item No.: 859-404/000-006

Jumper; for jumper slot; 3-way; insulated;

Jumper; for jumper slot; 4-way; insulated;

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

blue

Item No.: 859-407/000-006

Jumper; for jumper slot; 7-way; insulated; blue

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



Item No.: 859-409/000-006 Jumper; for jumper slot; 9-way; insulated;

blue

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## 1.1.2 Marking

### 1.1.2.1 Marker



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



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



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



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



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; snapon 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



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 mm²



### 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

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at::  $\underline{www.wago.com}$ 

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