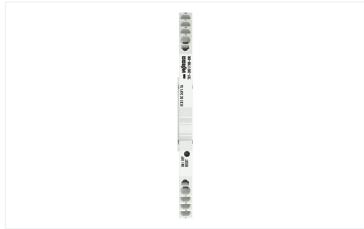
Electronic circuit breaker; 1-channel; 24 VDC input voltage; 1 A; Signal contact

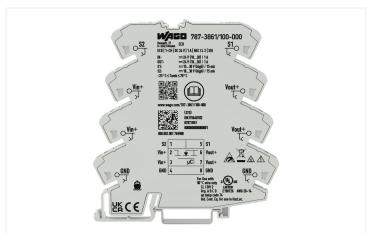
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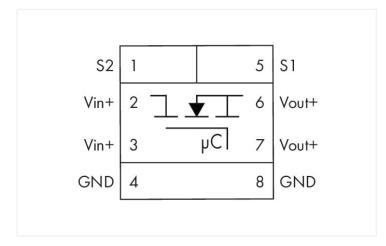


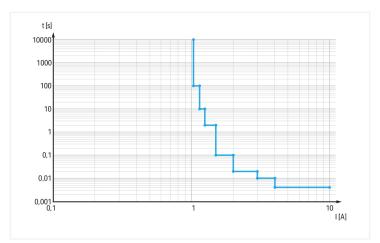












Features:

- 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

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Notes

Note

The device is designed for use in SELV circuits.

Depending on the output current, please use the approved minimum conductor cross-sections: 26 AWG (0.5 A); 24 AWG (1 A)

Technical data			
Input		Output	
Nominal input voltage U _{i nom}	DC 24 V	Total number of channels (module)	1
Input voltage range	DC 18 30 V	Nominal output voltage U _{o nom}	1 x DC 24 V
		Output voltage range	DC 18 30 V (U _e - voltage drop)
		Voltage drop	≤ 80 mV
		Nominal output current I _{o nom}	1 x 1 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 (loa 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)

Efficiency/power losses	
Power loss P _I	≤ 0.4 W (no load)
Efficiency (typ.)	98 %

Circuit protection	
Internal fuse	T8A

Safety and protection	
Isolation voltage (connectors – housing)	DC 1.5 kV
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
9	Pollution degree	2
(33 V)		

Insulation coordination	
Overvoltage category	II
Pollution degree	2

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Connection data	
Number of jumper slots	8
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 857 Series
Solid conductor	0.08 2.5 mm ² / 26 14 AWG
Fine-stranded conductor	0.34 2.5 mm ² / 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: 26 14 AWG (0.5 A); 24 14 AWG (1 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	0.631 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	
ETIM 9.0	EC001440
ETIM 8.0	EC001440
PU (SPU)	1 pcs
Packaging type	Bag
Country of origin	IN
Customs tariff number	85363010900

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Environmental Product Compliance	
CAS-No.	11120-22-2 1303-86-2 1317-36-8 7439-92-1
REACH Candidate List Substance	Diboron trioxide Lead Lead monoxide Lead silicate
RoHS Compliance Status	Compliant, With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	9e067f59-577d-4cfb-8b69-04df1b193138
SCIP notification number (Belgium)	a917f448-f4b2-4ea1-a678-678ebc4b93ef
SCIP notification number (Bulgaria)	34f9cdb2-b53b-49f1-a947-7641bd1eed82
SCIP notification number (Czech Republic)	04616c3f-ac9f-4f17-a537-4789d7e8165f
SCIP notification number (Denmark)	1b2c0c5d-4143-4d8b-b5e7-02a050298f2e
SCIP notification number (Finland)	10c1551d-b458-47cd-bbc4-b81ec6f05b40
SCIP notification number (France)	40f30069-59d8-4b3e-8328-48c0b37004ae
SCIP notification number (Germany)	854b209f-d3ab-406b-828a-9d454d8dfc60
SCIP notification number (Hungary)	c2f1f72a-0608-410c-8617-9305b2782cf5
SCIP notification number (Netherlands)	36aa65d4-861b-445a-ac3d-8becee207236
SCIP notification number (Poland)	f10033e6-a0d4-4526-bc57-b3dc8a2ce172
SCIP notification number (Romania)	cadcbf5e-8105-4fae-ab85-9d3a6691bb41
SCIP notification number (Sweden)	3c1a8af4-1e6c-46f6-9fa6-da05f95c7f9d

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

https://www.wago.com/787-3861/100-000



Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-3861/100-000



Documentation

Manual

Product Manual Elec-V 1.0.0 tronic circuit breaker

25.03.2024

7621.68 KB

Instruction Leaflet

Electronic Circuit Brea-

V 1.1.1

11.09.2023

2491.12 KB

CAD/CAE-Data

CAD data

2D/3D Models 787-3861/100-000



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; insula-

ted: blue

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

Item No.: 859-402/000-006

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

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

Item No.: 859-405

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

Item No.: 859-405/000-005

Item No.: 859-406/000-005

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

4444444

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;

Item No.: 859-410

Item No.: 859-402

Item No.: 859-403/000-005

Item No.: 859-404/000-005

light gray

red

red

ted; light gray

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

Item No.: 859-402/000-029

ted: red

Item No.: 859-410/000-005

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

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

Item No.: 859-403/000-029

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

Item No.: 859-404/000-029

Item No.: 859-405/000-029

yellow

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

Item No.: 859-405/000-006

Item No.: 859-410/000-029

Item No.: 859-403/000-006

Item No.: 859-404/000-006

ted; yellow

blue

blue

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

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

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

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



Item No.: 859-406/000-006

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



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

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

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1.1.1.1 Jumper









Item No.: 859-407

Item No.: 859-408

light gray

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

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

Item No.: 859-407/000-005

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

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





1/1

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

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;

Item No.: 859-409/000-029

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

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

Item No.: 2009-115

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

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 mm²

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 mm²

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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!