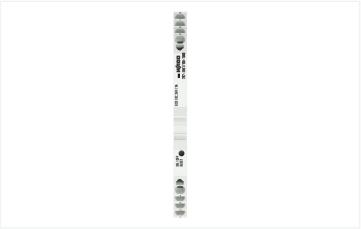
Electronic circuit breaker; 1-channel; 24 VDC input voltage; 1 A; NEC Class 2; Signal

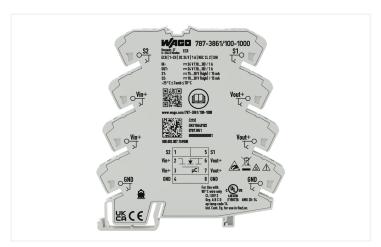
contact

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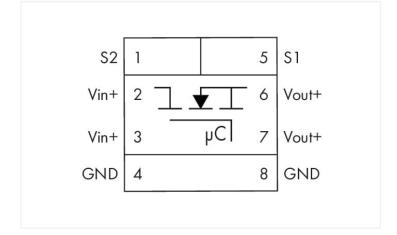


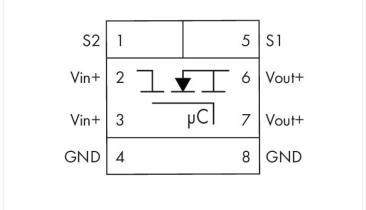












Features:

- 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 < 6,000 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(SELV)	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
		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); -3 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	T 4 A

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

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 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: 26 14 AWG (0.5 A); 24 14 AWG (1 A)

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Physical data

Width 6 mm / 0.236 inches 97.8 mm / 3.85 inches Height from upper-edge of DIN-rail 94 mm / 3.701 inches Depth

Mechanical data

Mounting type DIN-35 rail

Material data

Operating altitude

Fire load 0.631 MJ Weight 55.6 g

Environmental requirements

-25 ... +70 °C Ambient temperature (operation) -40 ... +85 °C Ambient temperature (storage) Relative humidity 10 ... 95 % (no condensation permissible) Derating No derating

≤ 2000 m (a.s.l.)

Standards and specifications

CE; UKCA Conformity marking EN 61000-6-2 Standards/specifications EN 61000-6-3 UL 61010-2-201 DNV UL 1310 (NEC Class 2) UL 2367

Commercial data

1 pcs PU (SPU) Country of origin IN Customs tariff number 85363010900

Environmental Product Compliance

RoHS Compliance Status Compliant, With Exemption **RoHS Exemption** 6(c) 7(a) 7(c)-I 7(c)-II

Approvals / Certificates

General approvals



	-	-	
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ONS)

Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS)	UL 2367	UL E175199 Vol.6 Sec.1 Serie787
UL Underwriters Laboratories Inc. (ORDINARY LOCATI-	UL 61010-2-201	UL E175199 Vol.3 Sec.5

Declarations of conformity and manufacturer's declarations

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

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Approvals for hazardous areas



ApprovalStandardCertificate NameULUL 121201UL E198726 Vol.2 Set

UL Underwriters Laboratories Inc. (HAZARDOUS LOCA-TIONS) UL E198726 Vol.2 Sec.3 Serie787

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-3861/100-1000 $\underline{\downarrow}$

Documentation

Instruction Leaflet

Electronic Circuit Brea- V 1.1.1 ker 11.09.2023

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pdf 2491.12 KB <u>↓</u>

CAD/CAE-Data

CAD data

2D/3D Models 787-3861/100-1000 \downarrow

1 Compatible Products

1.1 Optional Accessories

1.1.1 Jumper

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1.1.1.1 Jumper

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Item No.: 859-410/000-006

Item No.: 859-410

Jumper; for jumper slot; 10-way; insulated; light gray

Addition to

A STATE OF THE STA

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

0 a

Item No.: 859-402/000-006

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

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

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



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

Item No.: 859-403

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

light gray

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

Item No.: 859-404/000-005

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

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

yellow

Item No.: 859-405/000-006

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

Continued on next page



https://www.wago.com/787-3861/100-1000



1.1.1.1 Jumper





Item No.: 859-405/000-029

Item No.: 859-406/000-006

Item No.: 859-405 Jumper; for jumper slot; 5-way; insulated; light gray

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

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

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

Item No.: 859-406

Item No.: 859-407

light gray

light gray

light gray

Item No.: 859-406/000-005 Jumper; for jumper slot; 6-way; insulated; Jumper; for jumper slot; 6-way; insulated;

Item No.: 859-406/000-029

Item No.: 859-407/000-006

signal yellow

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

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

Item No.: 859-407/000-029 Item No.: 859-407/000-005

Item No.: 859-408/000-006

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

light gray

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

Item No.: 859-408

Item No.: 859-408/000-005

Item No.: 859-408/000-029 Jumper; for jumper slot; 8-way; insulated; Item No.: 859-409/000-006

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

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

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

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

Item No.: 859-409/000-005 Jumper; for jumper slot; 9-way; insulated;

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

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

Item No.: 859-409/000-029

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

Item No.: 859-409

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; 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

https://www.wago.com/787-3861/100-1000



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 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

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:: www.wago.com

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