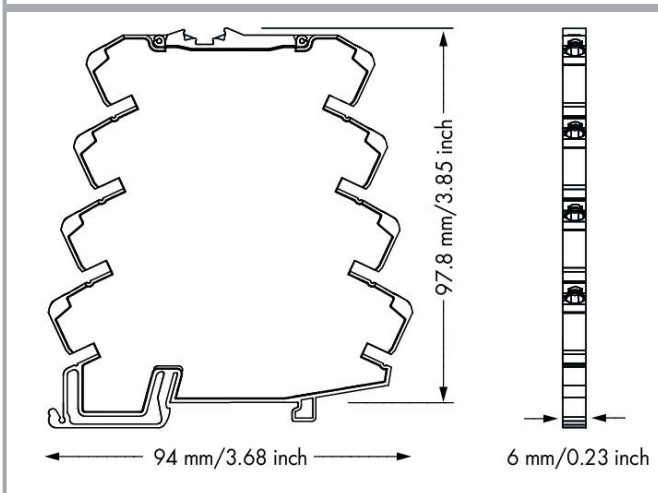
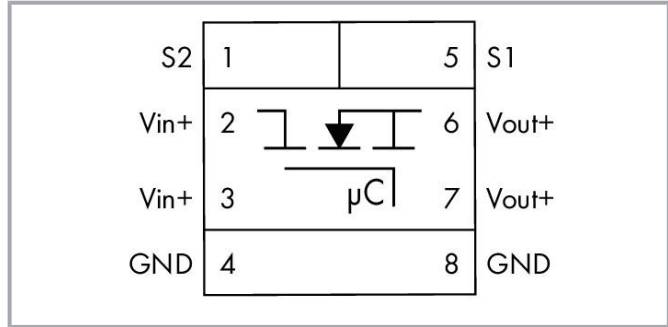
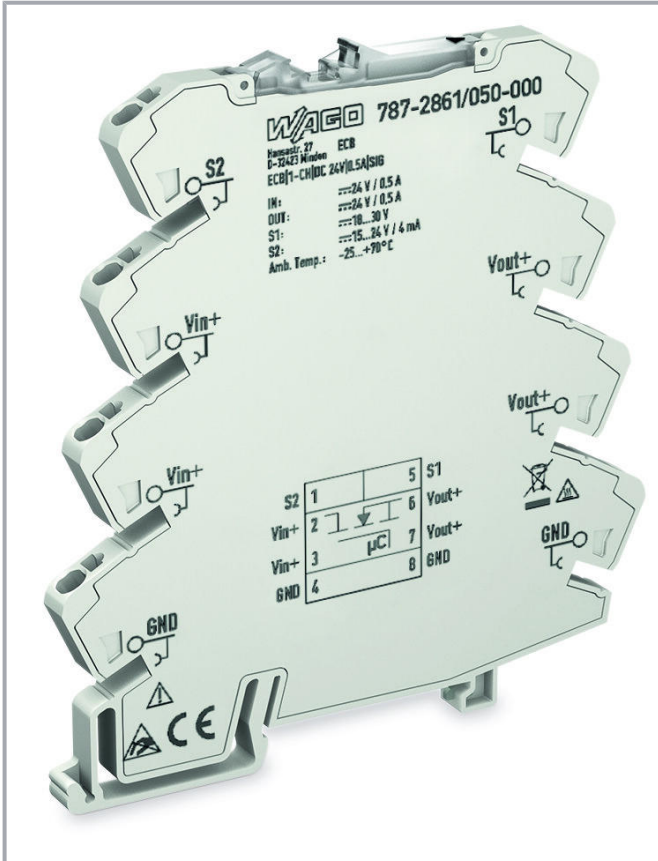


Data sheet | Item number: 787-2861/050-000

Electronic circuit breaker; 1-channel; 24 VDC input voltage; 0.5 A; Signal contact



[www.wago.com/787-2861\\_050-000](http://www.wago.com/787-2861_050-000)



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

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Do you have any questions about our products?  
 We are always happy to take your call at (262) 255-6222 or 1 800-DIN-RAIL.



## Item description

### 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  $\mu$ F
- 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

## Data

### Technical data

#### Input

Nominal input voltage [V]	DC 24 V
Input voltage range	DC 18 ... 30 V

#### Output

Number of Channels	1
Nominal output voltage [V]	1 x DC 24 V
Output voltage range	DC 18 ... 30 V ( $U_e$ – voltage drop)
Voltage drop	$\leq$ 50 mV
Nominal output current $I_{o\text{ nom}}$	1 x 0.5 A (Fixed setting)
Switch-on capacity	> 50000 $\mu$ F per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 170 ms/max. 500 ms)
Active current limitation	no

### Signaling and communication

Signaling	1 x Status LED (green/yellow/red/blue) 1 x Control input 1 x active signal output ( $U_i$ , max. 4 mA)
Operation status indicator	Green LED (channel OK) Red LED (tripped channel)

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



Remote input	18 ... 30 VDC signal, switches on/off and resets the channel
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### Efficiency/power losses

Power loss $P_l$	$\leq 0.36$ W (No load)
Efficiency (typ.)	99 %

### Circuit protection

Internal fuse	T 15 A
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### Safety and protection

Isolation voltage (connectors – housing)	DC 0.5 kV
Protection class	III
Protection type	IP20 (per EN 60529)
Reverse voltage protection	No
Pollution degree	2
Transient suppression (primary)	Suppressor diode (33 V)
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	1,263,074 h (per MIL-HDBK-217F2)

### 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 <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm <sup>2</sup> / 22 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inch

### Physical data

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

### Mechanical data

Mounting type	DIN-35 rail
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Subject to changes. Please also observe the further product documentation!

## Material data

Fire load	0.405 MJ
Weight	53.6 g

## Environmental requirements

Surrounding air temperature (operation)	-25 ... 70 °C (Device starts at -40 °C (type-tested))
Surrounding air temperature (storage)	-40 ... 85 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Derating	kein Derating

## Standards and specifications


Conformity marking	CE
Standards/Specifications	EN 61000-6-2 EN 61000-6-3 UL 61010-2-201 DNV GL

## Commercial data


Packaging type	bag
Country of origin	DE
GTIN	4055143951289
Customs tariff number	8536308000

## Approvals / Certificates

### Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>DNV GL</b> Det Norske Veritas, Germanischer Lloyd	DNVGL-CG-339,Dec.2019	TAA00001D1

### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>UL</b> Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 2367,UL 61010-2-201	E175199 Vol.3 Sec. 2 Series

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

## Optional accessories

### Tools



**Item no.: 210-720**

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

[www.wago.com/210-720](http://www.wago.com/210-720)

### Marking accessories



**Item no.: 2009-110**

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

[www.wago.com/2009-110](http://www.wago.com/2009-110)



**Item no.: 2009-115**

WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

[www.wago.com/2009-115](http://www.wago.com/2009-115)



**Item no.: 793-501**

WMB marking card; as card; not stretchable; plain; snap-on type; white

[www.wago.com/793-501](http://www.wago.com/793-501)



**Item no.: 793-502**

WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-502](http://www.wago.com/793-502)



**Item no.: 793-503**

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

[www.wago.com/793-503](http://www.wago.com/793-503)



**Item no.: 793-504**

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

[www.wago.com/793-504](http://www.wago.com/793-504)



**Item no.: 793-505**

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

[www.wago.com/793-505](http://www.wago.com/793-505)



**Item no.: 793-506**

WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-506](http://www.wago.com/793-506)



**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

[www.wago.com/793-5501](http://www.wago.com/793-5501)



**Item no.: 793-566**

WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white

[www.wago.com/793-566](http://www.wago.com/793-566)

### Ferrules



**Item no.: 216-241**

Ferrule; Sleeve for 0.5 mm<sup>2</sup> / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

[www.wago.com/216-241](http://www.wago.com/216-241)



**Item no.: 216-242**

Ferrule; Sleeve for 0.75 mm<sup>2</sup> / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

[www.wago.com/216-242](http://www.wago.com/216-242)

**Item no.: 216-243**

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



Ferrule; Sleeve for 1 mm<sup>2</sup> / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red [www.wago.com/216-243](http://www.wago.com/216-243)



**Item no.: 216-244**  
 Ferrule; Sleeve for 1.5 mm<sup>2</sup> / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black [www.wago.com/216-244](http://www.wago.com/216-244)

**Jumpers**



**Item no.: 859-402**  
 Push-in type jumper bar; Light gray; Insulated; 18 A; 2-position [www.wago.com/859-402](http://www.wago.com/859-402)



**Item no.: 859-402/000-006**  
 Jumper; for jumper slot; 2-way; insulated; blue [www.wago.com/859-402/000-006](http://www.wago.com/859-402/000-006)



**Item no.: 859-402/000-029**  
 Jumper; for jumper slot; 2-way; insulated; yellow [www.wago.com/859-402/000-029](http://www.wago.com/859-402/000-029)



**Item no.: 859-403**  
 Push-in type jumper bar; Light gray; Insulated; 18 A; 3-position [www.wago.com/859-403](http://www.wago.com/859-403)



**Item no.: 859-403/000-005**  
 Jumper; for jumper slot; 3-way; insulated; red [www.wago.com/859-403/000-005](http://www.wago.com/859-403/000-005)



**Item no.: 859-403/000-006**  
 Jumper; for jumper slot; 3-way; insulated; blue [www.wago.com/859-403/000-006](http://www.wago.com/859-403/000-006)



**Item no.: 859-403/000-029**  
 Jumper; for jumper slot; 3-way; insulated; yellow [www.wago.com/859-403/000-029](http://www.wago.com/859-403/000-029)



**Item no.: 859-404**  
 Push-in type jumper bar; Light gray; Insulated; 18 A; 4-position [www.wago.com/859-404](http://www.wago.com/859-404)



**Item no.: 859-404/000-005**  
 Jumper; for jumper slot; 4-way; insulated; red [www.wago.com/859-404/000-005](http://www.wago.com/859-404/000-005)



**Item no.: 859-404/000-006**  
 Jumper; for jumper slot; 4-way; insulated; blue [www.wago.com/859-404/000-006](http://www.wago.com/859-404/000-006)

















**Item no.: 859-404/000-029**  
 Jumper; for jumper slot; 4-way; insulated; yellow [www.wago.com/859-404/000-029](http://www.wago.com/859-404/000-029)





**Item no.: 859-405**  
 Push-in type jumper bar; Light gray; Insulated; 18 A; 5-position [www.wago.com/859-405](http://www.wago.com/859-405)

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

	<b>Item no.: 859-405/000-005</b> Jumper; for jumper slot; 5-way; insulated; red	<a href="http://www.wago.com/859-405/000-005">www.wago.com/859-405/000-005</a>
	<b>Item no.: 859-405/000-006</b> Jumper; for jumper slot; 5-way; insulated; blue	<a href="http://www.wago.com/859-405/000-006">www.wago.com/859-405/000-006</a>
	<b>Item no.: 859-405/000-029</b> Jumper; for jumper slot; 5-way; insulated; yellow	<a href="http://www.wago.com/859-405/000-029">www.wago.com/859-405/000-029</a>
	<b>Item no.: 859-406</b> Push-in type jumper bar; Light gray; Insulated; 18 A; 6-position	<a href="http://www.wago.com/859-406">www.wago.com/859-406</a>
	<b>Item no.: 859-406/000-005</b> Jumper; for jumper slot; 6-way; insulated; red	<a href="http://www.wago.com/859-406/000-005">www.wago.com/859-406/000-005</a>
	<b>Item no.: 859-406/000-006</b> Jumper; for jumper slot; 6-way; insulated; blue	<a href="http://www.wago.com/859-406/000-006">www.wago.com/859-406/000-006</a>
	<b>Item no.: 859-406/000-029</b> Jumper; for jumper slot; 6-way; insulated; signal yellow	<a href="http://www.wago.com/859-406/000-029">www.wago.com/859-406/000-029</a>
	<b>Item no.: 859-407</b> Push-in type jumper bar; Light gray; Insulated; 18 A; 7-position	<a href="http://www.wago.com/859-407">www.wago.com/859-407</a>
	<b>Item no.: 859-407/000-005</b> Jumper; for jumper slot; 7-way; insulated; red	<a href="http://www.wago.com/859-407/000-005">www.wago.com/859-407/000-005</a>
	<b>Item no.: 859-407/000-006</b> Jumper; for jumper slot; 7-way; insulated; blue	<a href="http://www.wago.com/859-407/000-006">www.wago.com/859-407/000-006</a>
	<b>Item no.: 859-407/000-029</b> Jumper; for jumper slot; 7-way; insulated; yellow	<a href="http://www.wago.com/859-407/000-029">www.wago.com/859-407/000-029</a>
	<b>Item no.: 859-408</b> Push-in type jumper bar; Light gray; Insulated; 18 A; 8-position	<a href="http://www.wago.com/859-408">www.wago.com/859-408</a>
	<b>Item no.: 859-408/000-005</b> Jumper; for jumper slot; 8-way; insulated; red	<a href="http://www.wago.com/859-408/000-005">www.wago.com/859-408/000-005</a>
	<b>Item no.: 859-408/000-006</b> Jumper; for jumper slot; 8-way; insulated; blue	<a href="http://www.wago.com/859-408/000-006">www.wago.com/859-408/000-006</a>

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



	<b>Item no.: 859-408/000-029</b> Jumper; for jumper slot; 8-way; insulated; yellow	<a href="http://www.wago.com/859-408/000-029">www.wago.com/859-408/000-029</a>
	<b>Item no.: 859-409</b> Push-in type jumper bar; Light gray; Insulated; 18 A; 9-position	<a href="http://www.wago.com/859-409">www.wago.com/859-409</a>
	<b>Item no.: 859-409/000-005</b> Jumper; for jumper slot; 9-way; insulated; red	<a href="http://www.wago.com/859-409/000-005">www.wago.com/859-409/000-005</a>
	<b>Item no.: 859-409/000-006</b> Jumper; for jumper slot; 9-way; insulated; blue	<a href="http://www.wago.com/859-409/000-006">www.wago.com/859-409/000-006</a>
	<b>Item no.: 859-409/000-029</b> Jumper; for jumper slot; 9-way; insulated; yellow	<a href="http://www.wago.com/859-409/000-029">www.wago.com/859-409/000-029</a>
	<b>Item no.: 859-410</b> Push-in type jumper bar; Light gray; Insulated; 18 A; 10-position	<a href="http://www.wago.com/859-410">www.wago.com/859-410</a>
	<b>Item no.: 859-410/000-005</b> Jumper; for jumper slot; 10-way; insulated; red	<a href="http://www.wago.com/859-410/000-005">www.wago.com/859-410/000-005</a>
	<b>Item no.: 859-410/000-006</b> Jumper; for jumper slot; 10-way; insulated; blue	<a href="http://www.wago.com/859-410/000-006">www.wago.com/859-410/000-006</a>
	<b>Item no.: 859-410/000-029</b> Jumper; for jumper slot; 10-way; insulated; yellow	<a href="http://www.wago.com/859-410/000-029">www.wago.com/859-410/000-029</a>

## Downloads Documentation

Manual			
Electronic Circuit Breaker 24 VDC / 0.5...8 A	V 1.3.1 Dec 16, 2019	pdf 3.0 MB	Download
Instruction Leaflet			
Electronic Circuit Breaker	V 1.5.0 May 25, 2020	pdf 3.8 MB	Download
Additional Information			
Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download

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

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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 787-2861/050-000	URL	Download
Electronic circuit breaker; 1-channel; 24 VDC input voltage; 0.5 A; Signal contact		

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## Installation Notes

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

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