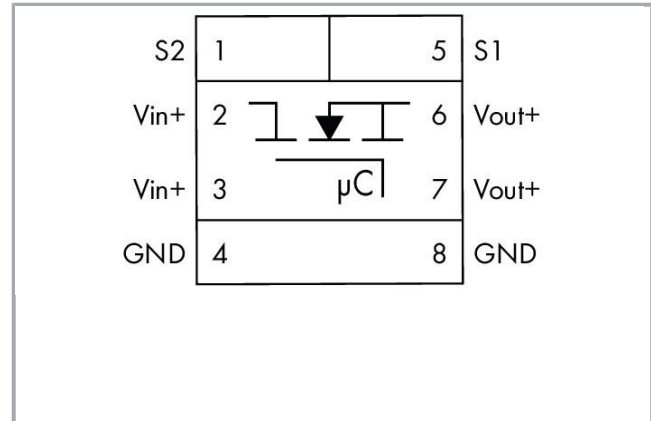
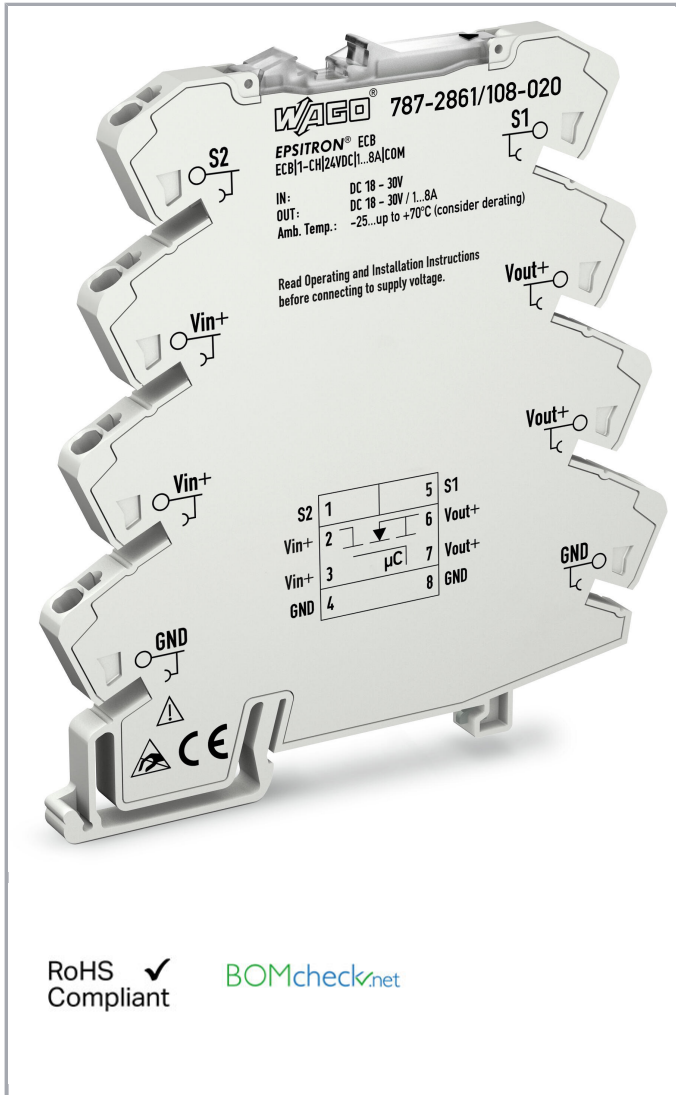


Data sheet | Item number: 787-2861/108-020

electronic circuit breaker; 1-channel; 24 VDC input voltage; adjustable 1 ... 8
A; Signal contact

www.wago.com/787-2861/108-020



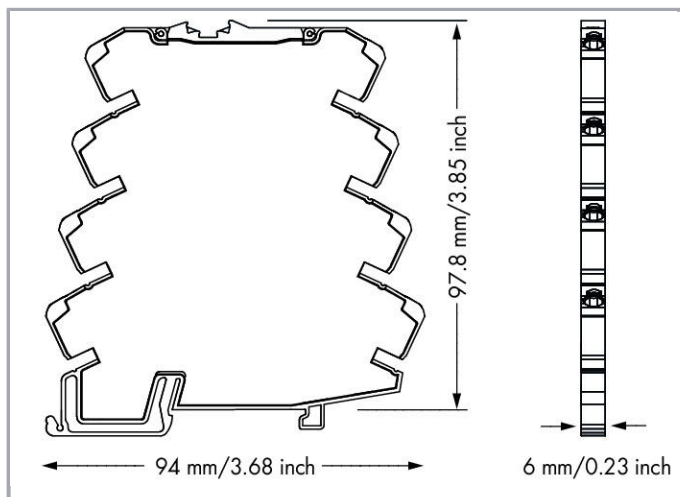
RoHS Compliant

[BOMcheck.net](https://www.bomcheck.net)

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

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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 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

Data

Technical Data

Input

Nominal input voltage $U_{i \text{ nom}}$	DC 24 V
Input voltage range	DC 18 ... 30 V

Output

Total number of channels (module)	1
Nominal output voltage $U_{o \text{ nom}}$	1 x DC 24 V
Output voltage range	DC 18 ... 30 V (U_e – voltage drop)
Voltage drop	$\leq 160 \text{ mV}$

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



Nominal output current $I_{o\ nom}$	1 x 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 A (adjustable)
Default setting	DC 1 A; switched off
Trip time	4 ms ... 100 s (Load-dependent)
Switch-on capacity	> 50000 μ 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/violet) 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)
Remote input	18 ... 30 VDC signal, switches on/off and resets the channel

Efficiency/Power losses:

Power loss P_i	≤ 0.3 W (No load)
Efficiency (typ.)	98 %

Fuse 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
Transient suppression (primary)	Suppressor diode (33 V)
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	1,262,142 h (per MIL-HDBK-217F2)

Connection data

Number of jumper slots	8
Connection technology	

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



	Push-in CAGE CLAMP®
WAGO Connector	WAGO 857 Series
Solid conductor	0.08 ... 2.5 mm² / 28 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm² / 22 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inch

Geometrical 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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Material Data

Fire load	0.405 MJ
Weight	38.4 g

Environmental Requirements

Surrounding air temperature (operation)	-25 ... 70 °C (Derating must be observed)
Surrounding air temperature (storage)	-40 ... 85 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Derating	See instruction manual
Pollution degree	2

Standards and specifications

Conformity marking	CE
Standards/specifications	EN 61000-6-2; EN 61000-6-3; UL 61010-2-201; DNV GL* (*pending)

Commercial data

Packaging type	BOX
Country of origin	DE
GTIN	4055143693172
Customs tariff number	85363010900

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Approvals / Certificates

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 2367	E175199 Vol.3 Sec. 2 Series 0787 ECB

Compatible products

Marking accessories

	Item no.: 793-501 WMB marking card; as card; not stretchable; plain; snap-on type; white	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
	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
	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
	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
	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
	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

tools

	Item no.: 210-720 Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft	www.wago.com/210-720
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Jumper

	Item no.: 281-482 Jumper; insulated; gray	www.wago.com/281-482
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ferrule

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

**Item no.: 216-241**

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white

www.wago.com/216-241
**Item no.: 216-242**

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray

www.wago.com/216-242
**Item no.: 216-243**

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red

www.wago.com/216-243
**Item no.: 216-244**

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black

www.wago.com/216-244
Downloads**Documentation****Manual**

Electronic Circuit Breaker 24 VDC / 0.5...8 A	V 1.3.1 16.12.2019	pdf 3.0 MB	Download
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Bid Text

787-2861/108-020 GAEB docx - Datei	02.07.2019	docx 20.3 kB	Download
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787-2861/108-020 GAEB X81 - Datei	03.07.2019	xml 7.2 kB	Download
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Instruction Leaflet

Electronic Circuit Breaker	V 1.5.0 25.05.2020	pdf 3.8 MB	Download
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Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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CAD/CAE-Data**CAD data**

2D/3D Models 787-2861/108-020	URL	Download
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CAE data

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ZUKEN Portal 787-2861/108-020

URL

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