

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

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



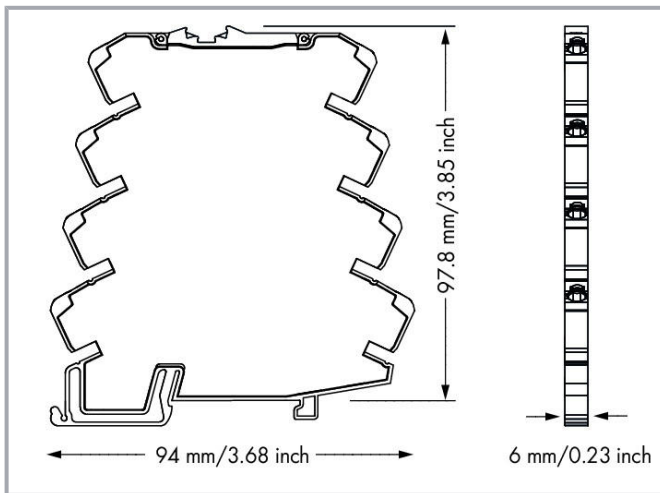
www.wago.com/787-2861/108-020



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 μ 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 $U_{i \text{ nom}}$	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)

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



Voltage drop	≤ 25 mV
Nominal output current $I_{o\text{ nom}}$	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_l	≤ 0.36 W
Efficiency (typ.)	96 %

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
Note on protection type	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	1,262,142 h (per MIL-HDBK-217F2)

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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 / 28 ... 14 AWG
Fine-stranded conductor	0.34 ... 2.5 mm ² / 22 ... 14 AWG
Strip length	9 ... 10 mm / 0.35 ... 0.39 inches

Physical data

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

Mechanical data

Mounting type	DIN-35 rail
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Material data

Weight	37 g
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Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C (Device starts at -40 °C (type-tested); Derating must be observed)
Surrounding air temperature (storage)	-40 ... +85 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Derating	See instruction manual

Standards and specifications

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

Commercial data

PU (SPU)	1 Stück
Packaging type	bag

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Country of origin VKOrg Germany	DE
GTIN	4066966213348
Customs tariff number VKOrg Germany	85363010900

Approvals / Certificates


Country specific Approvals

Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC_Certificate_RU_C-DE.AM02.B.00115_19

Ship Approvals



Logo	Approval	Additional Approval Text	Certificate name
	DNV GL Det Norske Veritas, Germanischer Lloyd	DNV-CG-0339,Aug.2021	TAA00001D1

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 2367,UL 61010-2-201	E175199 Vol.3 Sec. 2 Series 0787 ECB

Optional accessories

Marking accessories

Marking strip		
	Item no.: 2009-110 Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white	www.wago.com/2009-110
Marker		
	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
	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

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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**Tool**

Operating tool

**Item no.: 210-720**

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

www.wago.com/210-720**Jumpers**

Jumper

Item no.: 859-408

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

www.wago.com/859-408**Item no.: 859-405**

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

www.wago.com/859-405**Item no.: 859-406**

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

www.wago.com/859-406**Item no.: 859-409**

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

www.wago.com/859-409**Item no.: 859-403**

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

www.wago.com/859-403**Item no.: 859-404**

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

www.wago.com/859-404**Item no.: 859-402**

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

www.wago.com/859-402**Item no.: 859-407**

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

www.wago.com/859-407**Ferrule**

Ferrule

**Item no.: 216-241**Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastightwww.wago.com/216-241

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crimped; acc. to DIN 46228, Part 4/09.90; white

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 2019 Dec 16	pdf 3.0 MB	Download
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Bid Text

787-2861/108-020 X81 - Datei	2019 Jul 3	xml 7.2 kB	Download
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787-2861/108-020 docx - Datei	2019 Jul 2	docx 20.3 kB	Download
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Instruction Leaflet

Electronic Circuit Breaker	V 1.5.0 2020 May 25	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**CAE data**

ZUKEN Portal 787-2861/108-020		URL	Download
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EPLAN Data Portal 787-2861/108-020

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CAD data

2D/3D Models 787-2861/108-020

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-2861/108-020

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Installation Notes

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