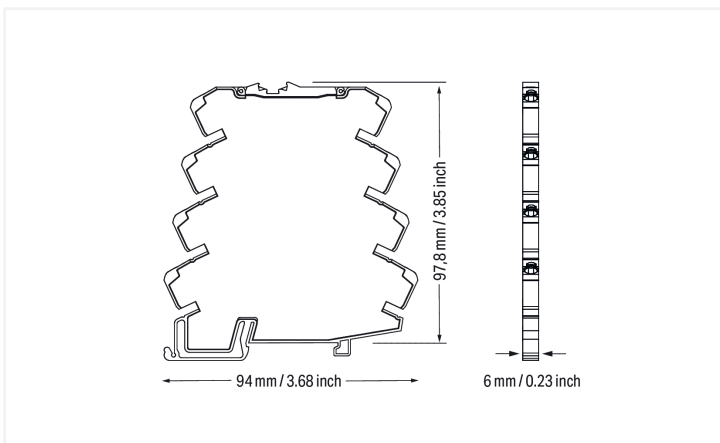
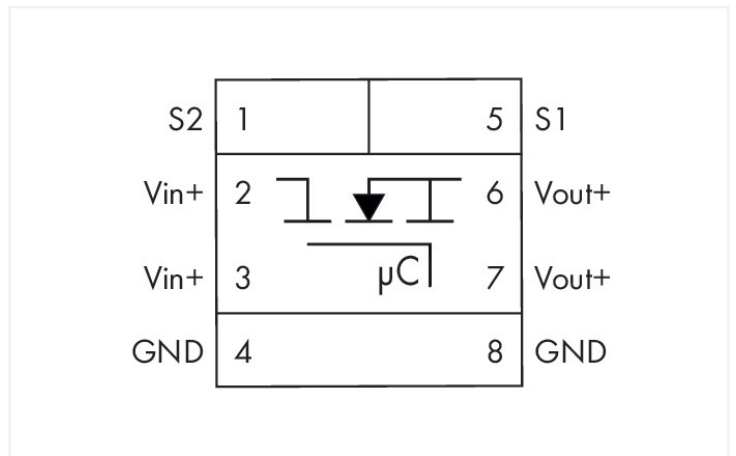
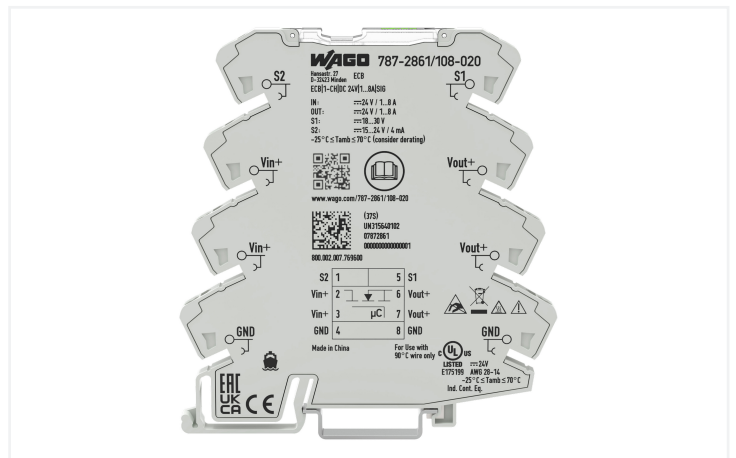


Data Sheet | Item Number: 787-2861/108-020

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



<https://www.wago.com/787-2861/108-020>



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

Technical data

Input		Output	
Nominal input voltage $U_{i, \text{nom}}$	24 VDC	Total number of channels (module)	1
Input voltage range	18 ... 30 VDC	Nominal output voltage $U_{o, \text{nom}}$	1 x 24 VDC
		Output voltage range	18 ... 30 VDC (U_e – voltage drop)
		Voltage drop	≤ 25 mV (8 A)
		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	
		Switch-on behavior	Time-delayed channel switching (load-dependent, min. 170 ms / max. 500 ms)
		Active current limitation	No
		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	≤ 0.36 W
Efficiency (typ.)	96 %

Circuit Protection

Internal fuse	T 15 A
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Safety and protection

Isolation voltage (connectors – housing)	0.5 kVDC
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	1,262,142 h (per MIL-HDBK-217F2)

Connection Data

Number of jumper slots	8	Connection 1	
		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	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
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Material data

Fire load	0 MJ
Weight	37 g

Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C (Device starts at -40 °C (type-tested); derating must be observed)
Ambient 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 pcs
Packaging type	Bag
Country of origin	CN
Customs tariff number	85362010900

Product Classification

UNSPSC	39121630
eCl@ss 10.0	27-37-18-02
eCl@ss 9.0	27-37-18-02
ETIM 9.0	EC001440
ETIM 10.0	EC001440
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

CAS-No.	1303-86-2 1317-36-8 7439-92-1
REACH Candidate List Substance	Diboron trioxide Lead Lead monoxide
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	ad637ba0-c51f-44a2-b8ff-698cbefc51ed
SCIP notification number (Belgium)	b9d40650-cacb-4859-9d7f-9e8d56e09db4
SCIP notification number (Bulgaria)	d644b413-03d7-4b54-91f8-74efdb896cc6
SCIP notification number (Czech Republic)	26461ced-0081-473c-a4f7-e0052cd02021
SCIP notification number (Denmark)	876bec22-164d-4230-a8e8-c291b1cef7e9
SCIP notification number (Finland)	fb61e357-adfd-4dc2-b7cc-8895b1b1bfec
SCIP notification number (France)	a543535a-89e4-4209-ae61-75ad11911c03
SCIP notification number (Germany)	99b35031-4afa-467c-8291-187612075f67
SCIP notification number (Hungary)	22782ca1-1e17-4739-b396-2315822c2d14
SCIP notification number (Italy)	3345dcef-f8e6-4692-ae81-a6831afb3e9b
SCIP notification number (Poland)	224e2e49-fee4-4dd0-b2ef-0943e1019bc8
SCIP notification number (Sweden)	f32ab49c-378d-43d7-86c6-99df1ed9df56

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 2367,UL 61010-2-201	E175199 Vol.3 Sec.2 Series 0787 ECB

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	-	-

Approvals for marine applications



Approval	Standard	Certificate Name
DNV DNV Germany GmbH	DNV-CG-0339, Aug. 2021	TAA00001D1

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance
787-2861/108-020



Documentation

Manual

Product Manual Electronic Circuit Breaker

V 1.3.1
16.12.2019

pdf
2933.00 KB



Bid Text

787-2861/108-020

03.07.2019

xml
7.12 KB



787-2861/108-020

02.07.2019

docx
33.89 KB



ausschreiben.de
787-2861/108-020



Instruction Leaflet

Electronic Circuit Breaker

V 2.0.0
27.02.2023

pdf
3477.29 KB



CAD/CAE-Data

CAD data

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



CAE data

EPLAN Data Portal
787-2861/108-020



ZUKEN Portal
787-2861/108-020



1 Compatible Products

1.1 Optional Accessories

1.1.1 Jumper

1.1.1.1 Jumper



[Item No.: 859-402](#)

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



[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



[Item No.: 859-405](#)

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



[Item No.: 859-406](#)

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



[Item No.: 859-407](#)

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



[Item No.: 859-408](#)

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



[Item No.: 859-409](#)

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

1.1.2 Marking

1.1.2.1 Marker



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; snap-on 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 Tool

1.1.3.1 Operating tool



Item No.: 210-720

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