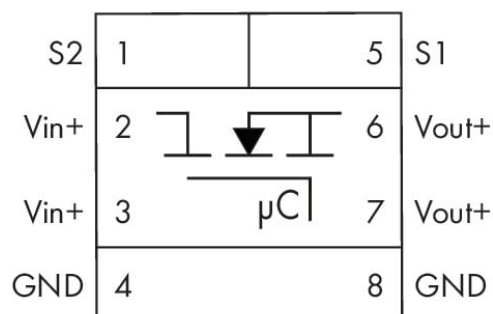
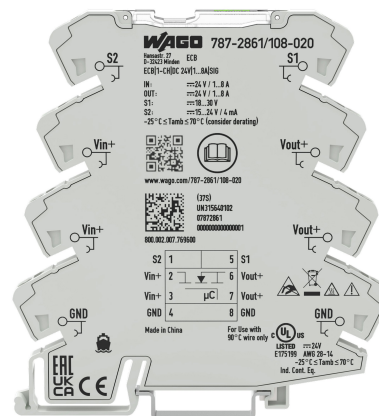
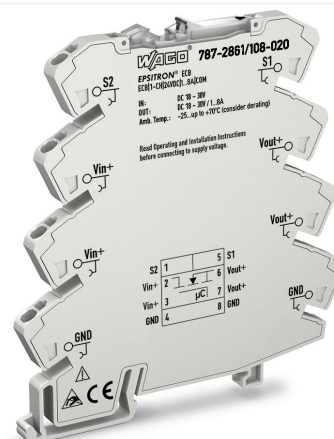
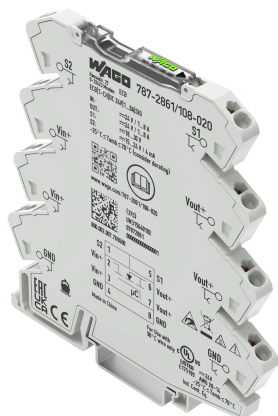
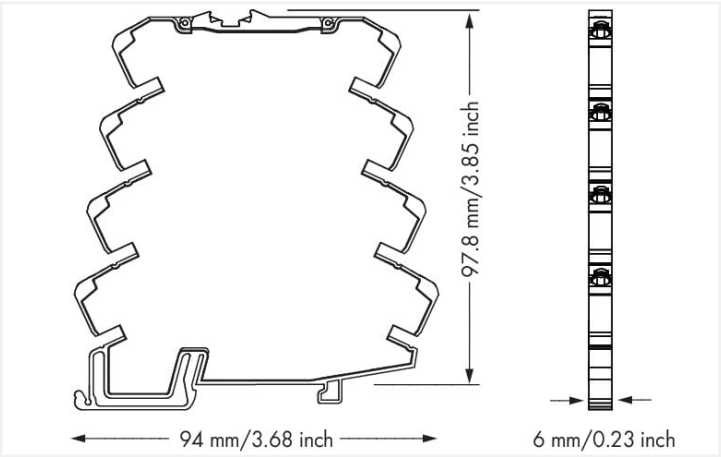


Data Sheet | Item Number: 787-2861/108-020

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

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





Dimensions in mm

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

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	Nominal output voltage $U_{o, nom}$	1 x DC 24 V
		Output voltage range	DC 18 ... 30 V (U_e – voltage drop)
		Voltage drop	≤ 25 mV (8 A)
		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
		Switch-on capacity	
		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	≤ 0.36 W
Efficiency (typ.)	96 %

Circuit protection	
Internal fuse	T 15 A



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

Connection data		
Number of jumper slots		8
Connection technology		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 inches

Physical data		
Width		6 mm / 0.236 inches

Environmental requirements		
Ambient temperature (operation at U _N)		-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	
eCl@ss 10.0	27-37-18-02
eCl@ss 9.0	27-37-18-02
ETIM 8.0	EC001440
ETIM 7.0	EC001440
PU (SPU)	1 pcs
Packaging type	Bag
Country of origin	CN
GTIN	4066966213348
Customs tariff number	85363010900

Approvals / Certificates

General approvals



Approval	Standard	Certificate Name
EAC Brjansker Zertifizierungs- stelle	TP TC 020/2011	EAC_Certificate_RU_C- DE.AM02.B.00115_19
UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS)	UL 2367,UL 61010-2-201	E175199 Vol.3 Sec.2 Se- ries 0787 ECB

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 787-2861/108-020



Documentation

Manual
Product Manual Elec- tronic 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 1.5.0 25.05.2020	pdf 3696.39 KB	

CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 787-2861/108-020	EPLAN Data Portal 787-2861/108-020
	ZUKEN Portal 787-2861/108-020

1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule

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	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	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	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

1.1.2 Jumper

1.1.2.1 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

1.1.3 Marking

1.1.3.1 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



1.1.3.2 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel;
not stretchable; plain; snap-on type; white

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