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

gnal contact

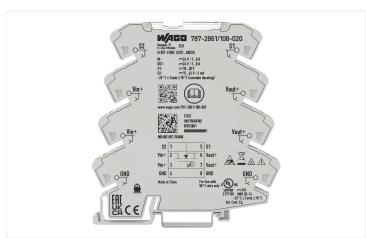
https://www.wago.com/787-2861/108-020



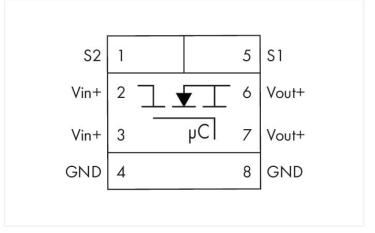






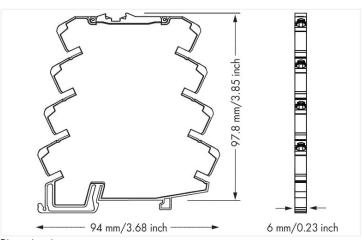






https://www.wago.com/787-2861/108-020





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 <sub>i nom</sub>	DC 24 V	Total number of channels (modul	le) 1
Input voltage range DC 18	DC 18 30 V	Nominal output voltage $U_{o nom}$	1 x DC 24 V
		Output voltage range	DC 18 30 V (U <sub>e</sub> – voltage drop)
		Voltage drop	≤ 25 mV (8 A)
		Nominal output current I <sub>o nom</sub>	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		Efficiency/power losses	
Signaling	1 x Status LED (green/yellow/red/blue/	Power loss P <sub>I</sub>	≤ 0.36 W
	violet) 1 x Control input 1 x Active signal output (U <sub>r</sub> max. 4 mA)	Efficiency (typ.)	96 %
Operation status indicator	Green LED (channel OK) Red LED (tripped channel)		
Remote input	18 30 VDC signal, switches on/off and resets the channel		

Circuit protection	
Internal fuse	T 15 A

# Data Sheet | Item Number: 787-2861/108-020 https://www.wago.com/787-2861/108-020



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	1,262,142 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 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
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

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

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



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 Series 0787 ECB

#### Approvals for marine applications



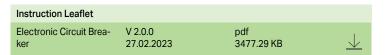
Approval	Standard	Certificate Name
DNV DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA00001D1

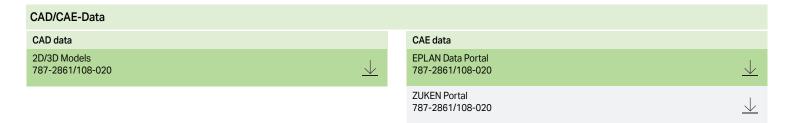
# Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 787-2861/108-020

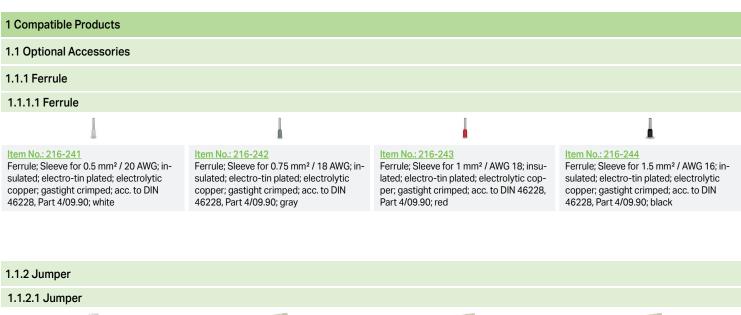


https://www.wago.com/787-2861/108-020











#### 1.1.3.1 Marker

Item No.: 793-502



WMB marking card; as card; MARKED; 1 ...

10 (10x); not stretchable; Horizontal mar-



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

king; snap-on type; white

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

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



#### 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

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

Page 6/6 Version 03.04.2023