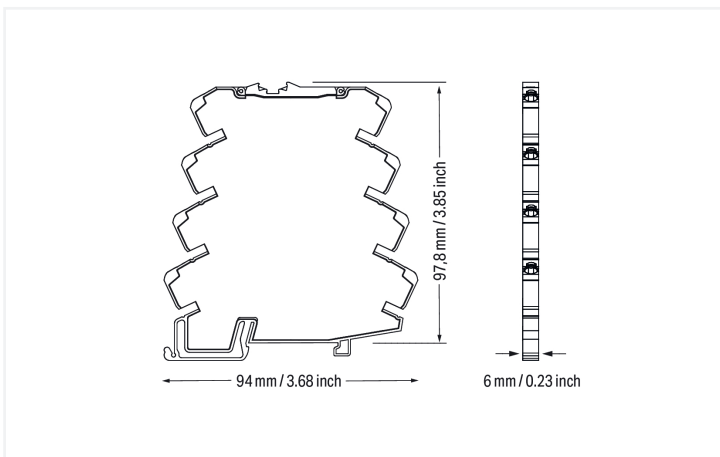
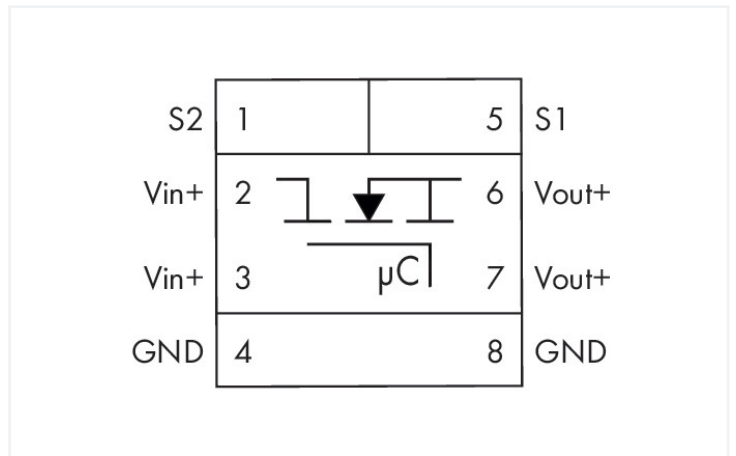
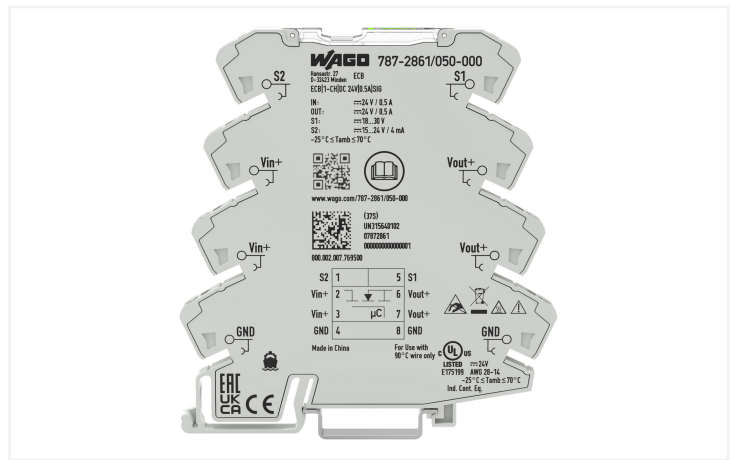


Data Sheet | Item Number: 787-2861/050-000

Electronic circuit breaker; 1-channel; 24 VDC input voltage; 0.5 A; Signal contact

<https://www.wago.com/787-2861/050-000>



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
- 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 – 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 $U_{i, nom}$	24 VDC	Total number of channels (module)	1
Input voltage range	18 ... 30 VDC	Nominal output voltage $U_{o, nom}$	1 x 24 VDC
		Output voltage range	18 ... 30 VDC (U_e – voltage drop)
		Voltage drop	≤ 50 mV
		Nominal output current $I_{o, nom}$	1 x 0.5 A (fixed setting)
		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) 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	$\leq 0,36$ W
Efficiency (typ.)	99 %

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	1,263,074 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	34 g

Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C (Device starts at -40 °C (type-tested))
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Derating	No derating

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	39121634
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)	98965cd4-cf5d-44c1-be87-5f997e073d49
SCIP notification number (Belgium)	d1cfc064-5bca-4fc6-a2b0-99c03cba53d6
SCIP notification number (Bulgaria)	e5f8c95d-6627-4038-a03f-5d9855705fc0
SCIP notification number (Czech Republic)	a14b1ca0-402c-4f2e-858a-3a7dd911edfc
SCIP notification number (Denmark)	16bddeea-591a-482c-90a0-fc1be37fdcbd
SCIP notification number (Finland)	91744e2c-395e-4567-9d9e-a9cf919a5ae5
SCIP notification number (France)	f30d11a4-1f1a-4d0b-8068-ca8edb5ddb10
SCIP notification number (Germany)	b8c90a68-67a7-4cfe-90c1-1f1d7cfa926f
SCIP notification number (Hungary)	9aae56c0-ef99-4428-aedd-f8168f97e227
SCIP notification number (Italy)	45f58804-182a-41da-8add-779a17f5d46b
SCIP notification number (Netherlands)	ab377e0c-9818-4697-afaf-473da16a4953
SCIP notification number (Poland)	31b2b817-e3da-4e6e-879b-67f754183ca8
SCIP notification number (Romania)	ad3598b8-6ee6-4f24-9fe5-e8180dbc43ec
SCIP notification number (Sweden)	cc089079-81b0-4237-9534-44592a9a24fe

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
Approval	Standard	Certificate Name	Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081	EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS)	UL 2367,UL 61010-2-201	E175199 Vol.3 Sec.2 Se- ries 0787 ECB	UK-Declaration of Confor- mity 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 787-2861/050-000	↓

Documentation

Manual			
Product Manual Electronic Circuit Breaker	V 1.3.1 16.12.2019	pdf 2933.00 KB	↓

Instruction Leaflet			
Electronic Circuit Breaker	V 2.0.0 27.02.2023	pdf 3477.29 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 787-2861/050-000	↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Jumper

1.1.1.1 Jumper

Item No.: 859-410/000-006 Jumper; for jumper slot; 10-way; insulated; blue	Item No.: 859-410 Jumper; for jumper slot; 10-way; insulated; light gray	Item No.: 859-410/000-005 Jumper; for jumper slot; 10-way; insulated; red	Item No.: 859-410/000-029 Jumper; for jumper slot; 10-way; insulated; yellow
Item No.: 859-402/000-006 Jumper; for jumper slot; 2-way; insulated; blue	Item No.: 859-402 Jumper; for jumper slot; 2-way; insulated; light gray	Item No.: 859-402/000-029 Jumper; for jumper slot; 2-way; insulated; yellow	Item No.: 859-403/000-006 Jumper; for jumper slot; 3-way; insulated; blue
Item No.: 859-403 Jumper; for jumper slot; 3-way; insulated; light gray	Item No.: 859-403/000-005 Jumper; for jumper slot; 3-way; insulated; red	Item No.: 859-403/000-029 Jumper; for jumper slot; 3-way; insulated; yellow	Item No.: 859-404/000-006 Jumper; for jumper slot; 4-way; insulated; blue
Item No.: 859-404 Jumper; for jumper slot; 4-way; insulated; light gray	Item No.: 859-404/000-005 Jumper; for jumper slot; 4-way; insulated; red	Item No.: 859-404/000-029 Jumper; for jumper slot; 4-way; insulated; yellow	Item No.: 859-405/000-006 Jumper; for jumper slot; 5-way; insulated; blue
Item No.: 859-405 Jumper; for jumper slot; 5-way; insulated; light gray	Item No.: 859-405/000-005 Jumper; for jumper slot; 5-way; insulated; red	Item No.: 859-405/000-029 Jumper; for jumper slot; 5-way; insulated; yellow	Item No.: 859-406/000-006 Jumper; for jumper slot; 6-way; insulated; blue
Item No.: 859-406 Jumper; for jumper slot; 6-way; insulated; light gray	Item No.: 859-406/000-005 Jumper; for jumper slot; 6-way; insulated; red	Item No.: 859-406/000-029 Jumper; for jumper slot; 6-way; insulated; yellow	Item No.: 859-407/000-006 Jumper; for jumper slot; 7-way; insulated; blue

1.1.1.1 Jumper



Item No.: 859-407

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



Item No.: 859-407/000-005

Jumper; for jumper slot; 7-way; insulated; red



Item No.: 859-407/000-029

Jumper; for jumper slot; 7-way; insulated; yellow



Item No.: 859-408/000-006

Jumper; for jumper slot; 8-way; insulated; blue



Item No.: 859-408

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



Item No.: 859-408/000-005

Jumper; for jumper slot; 8-way; insulated; red



Item No.: 859-408/000-029

Jumper; for jumper slot; 8-way; insulated; yellow



Item No.: 859-409/000-006

Jumper; for jumper slot; 9-way; insulated; blue



Item No.: 859-409

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



Item No.: 859-409/000-005

Jumper; for jumper slot; 9-way; insulated; red



Item No.: 859-409/000-029

Jumper; for jumper slot; 9-way; insulated; yellow

1.1.2 Marking

1.1.2.1 Marker



Item No.: 793-5501

WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white



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