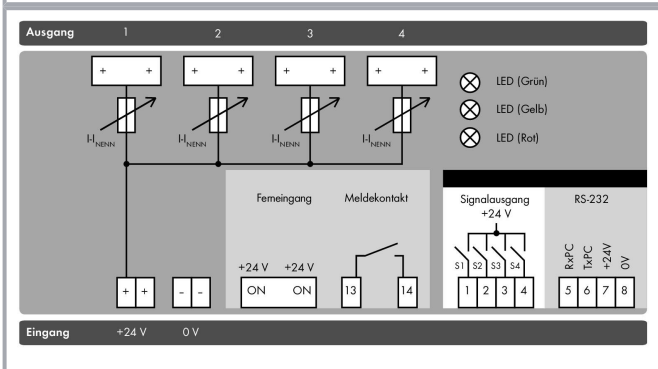
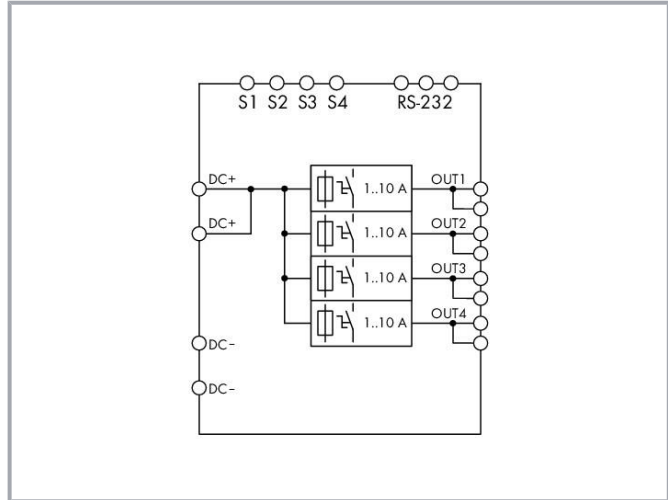


Data sheet | Item number: 787-862

Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 1 ... 10 A; communication capability; 10,00 mm²



www.wago.com/787-862



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

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Do you have any questions about our products?
 We are always happy to take your call at +49 (571) 887-44222.

Item description

Features:

- ECB with four channels (parametrizable)
- Time-delayed switching of channels
- Isolated signal contact
- Current and voltage monitoring via RS-232 interface and LCD
- Four active signal outputs for function monitoring

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)	4
Nominal output voltage $U_{o\text{ nom}}$	4 x DC 24 V
Output voltage range	DC 18 ... 30 V (U_e - voltage drop)
Voltage drop	≤ 140 mV (6 A); ≤ 240 mV (10 A) (Input (+))
Nominal output current $I_{o\text{ nom}}$	4 x 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 A (adjustable for each channel)
Trip time	100 ms ... 600 s (Load-dependent; adjustable; preset: 100 s)
Switch-on capacity	> 20000 μ F
Switch-on behavior	Time-delayed channel switching (250 ms each)
Active current limitation	no

Signaling and Communication

Signaling	1 x LED DC OK (green) 1 x Warning LED (yellow) 1 x Error LED (red) LCD 1 x Remote control input 1 x RS-232 interface
Operation status indicator	Green LED (all channels OK)

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



	Yellow LED (warning) Red LED (at least one channel has tripped)
Communication	RS-232 serial interface
Remote input	Reactivation of all tripped channels via 18 ... 30 VDC pulse for min. 50 ms

Efficiency/power losses

Power loss P_l	$\leq 2 \text{ W}; \leq 12 \text{ W}$ (nominal load)
Efficiency (typ.)	96 %

Circuit protection

Internal fuse	T 15 A
---------------	--------

Safety and protection

Protection class	III
Protection type	IP20; per EN 60529
Reverse voltage protection	No
Pollution degree	2
Transient suppression (primary)	Suppressor diode
Parallel operation of single channels	Not permitted
Series operation	No
MTBF	> 500,000 h (per IEC 61709)

Connection data

Connection type 1	Input (+)
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 831 Series
Solid conductor	0.5 ... 10 mm ² / 20 ... 8 AWG
Fine-stranded conductor	0.5 ... 10 mm ² / 20 ... 8 AWG
Strip length	13 ... 15 mm / 0.51 ... 0.59 inches
Connection type 2	Input (-); Output; Signaling
Connection technology 2	CAGE CLAMP®
WAGO connector 2	WAGO 231 Series
Solid conductor 2	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor 2	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length 2	8 ... 9 mm / 0.31 ... 0.35 inches

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



Physical data

Width	40 mm / 1.575 inches
Height	171 mm / 6.732 inches
Depth from upper-edge of DIN-rail	163 mm / 6.417 inches
Note (dimensions)	Height with connector

Mechanical Data

Mounting type	DIN-35 rail
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Material Data

Weight	800 g
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Environmental requirements

Ambient temperature (operation)	-10 ... +60 °C
Ambient temperature (storage)	-25 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)

Standards and specifications

Conformity marking	CE
Standards/specifications	EN 60950 UL 508 EN 61000-6-2 EN 61000-6-3

Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
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	box
Country of origin	DE
GTIN	4045454909864
Customs tariff number	85363010900

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

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Environmental Product Compliance

RoHS Compliance Status


Compliant, No Exemption

Approvals / Certificates

General approvals




Logo	Approval	Additional Approval Text	Certificate name
	EAC Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC_Certificate_RU_C-DE.AM02.B.00115_19
	UL Underwriters Laboratories Inc.	UL 60950-1	E255815
	UL Underwriters Laboratories Inc.	UL 508	E255817

Declarations of conformity and manufacturer's declarations


Logo	Approval	Additional Approval Text	Certificate name
	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-


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
	Item no.: 210-831 Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white	www.wago.com/210-831
	Item no.: 210-832 Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white	www.wago.com/210-832
Marker		


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

 **Item no.: 2009-145** www.wago.com/2009-145
Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

 **Item no.: 2009-115** www.wago.com/2009-115
WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white

 **Item no.: 248-501** www.wago.com/248-501
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white


 **Item no.: 793-501** www.wago.com/793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white


 **Item no.: 793-5501** www.wago.com/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


Ferrule


Ferrule


 **Item no.: 216-203** www.wago.com/216-203
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red


 **Item no.: 216-206** www.wago.com/216-206
Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; blue


 **Item no.: 216-207** www.wago.com/216-207
Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; gray

 **Item no.: 216-202** www.wago.com/216-202
Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray


 **Item no.: 216-204** www.wago.com/216-204
Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black


 **Item no.: 216-205** www.wago.com/216-205
Ferrule; Sleeve for 2.08 mm² / AWG 14; insulated; electro-tin plated; yellow

 **Item no.: 216-208** www.wago.com/216-208
Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow

 **Item no.: 216-201** www.wago.com/216-201
Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white

 **Item no.: 216-223** www.wago.com/216-223
Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red

 **Item no.: 216-241** www.wago.com/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** www.wago.com/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

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

	Item no.: 216-222 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; gray	www.wago.com/216-222
	Item no.: 216-221 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; white	www.wago.com/216-221
	Item no.: 216-224 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; black	www.wago.com/216-224
	Item no.: 216-243 Ferrule; Sleeve for 1 mm ² / 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 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	www.wago.com/216-244
	Item no.: 216-263 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red	www.wago.com/216-263
	Item no.: 216-246 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	www.wago.com/216-246
	Item no.: 216-266 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	www.wago.com/216-266
	Item no.: 216-264 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	www.wago.com/216-264
	Item no.: 216-284 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black	www.wago.com/216-284
	Item no.: 216-286 Ferrule; Sleeve for 2.5 mm ² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue	www.wago.com/216-286
	Item no.: 216-287 Ferrule; Sleeve for 4 mm ² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-287
	Item no.: 216-262 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray	www.wago.com/216-262
	Item no.: 216-288 Ferrule; Sleeve for 6 mm ² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow	www.wago.com/216-288
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-301
	Item no.: 216-321 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated; yellow	www.wago.com/216-321
	Item no.: 216-322	

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

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

www.wago.com/216-322



Item no.: 216-267

Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray www.wago.com/216-267



Item no.: 216-302

Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise

www.wago.com/216-302

Tool

Operating tool



Item no.: 210-721

Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured

www.wago.com/210-721



Item no.: 210-720

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

www.wago.com/210-720

Cables and pluggable connectors

Communication cable



Item no.: 787-890

RS-232 communication cable; Length 1.8 m

www.wago.com/787-890

Connecting cable



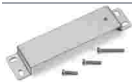
Item no.: 761-9005

USB adapter; with 1m connection cable

www.wago.com/761-9005

Mounting adapter

Wall-mount adapter



Item no.: 787-895

Mounting carrier; for screw fixing of 787-8xx devices on mounting plate or wall without DIN 35 rail

www.wago.com/787-895

DIN-rail adapter



Item no.: 787-897

Carrier rail adapter made of zinc die-cast; for mounting 787-8xx devices to a DIN 35 rail

www.wago.com/787-897



Item no.: 787-896

Carrier rail adapter; for mounting 787-8xx devices to a DIN 35 rail

www.wago.com/787-896

Downloads

Documentation

Bid Text

787-862	2019 Jul 3	xml	Download
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787-862 docx - Datei	2019 Jul 3	docx 19.1 kB		Download
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Instruction Leaflet

EPSITRON Electronic Circuit Breaker 4 x DC 24 V, 1...10 A		pdf 439.4 kB		Download
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Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 Aug 18	pdf 2.2 MB		Download
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Libraries

Library

Anbindung Stromversorgungen Serie 787 Die Bibliothek "WagoLib787_01.lib" stellt Funktionsbausteine und Visualisierungen zur Verfügung, mit deren Hilfe die Informationen der WAGO Stromversorgungsmodule der Serie 787 angezeigt werden können.	1.3.0 2014 May 14	zip 562.7 kB		Download
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Engineering-Software

Configuration and Commissioning Software

WAGO Software 759-860 Software 759-860, for configuration and visualization of electronic circuit breakers 787-860, 787-861 und 787-862	1.2.6 2012 Feb 16	zip 521.5 kB		Download
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CAD/CAE-Data

CAD data

2D/3D Models 787-862		URL		Download
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CAE data

WSCAD Universe 787-862		URL		Download
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ZUKEN Portal 787-862		URL		Download
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Subject to changes. Please also observe the further product documentation!



EPLAN Data Portal 787-862

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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-862

[URL](#)

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Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 1 ... 10 A; communication capability; 10,00 mm²

Installation Notes

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

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