

Data sheet | Item number: 787-860

Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 1 ... 6 A; communication capability; 10,00 mm²



www.wago.com/787-860



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

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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

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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) (Input (+))
Nominal output current $I_{o\text{ nom}}$	4 x 1 / 2 / 3 / 4 / 5 / 6 A (adjustable for each channel)
Switch-on capacity	> 20000 μ F
Switch-on behavior	Time-delayed channel switching (250 ms each)
Active current limitation	No
Current limitation	No

Signaling and communication

Signaling	<ul style="list-style-type: none"> 1 x LED DC OK (green) 1 x Warning LED (yellow) 1 x Error LED (red) LCD 1 x Remote control input 4 x Signal output (24 VDC; max. 25 mA) 1 x Isolated relay contact (max. 30 VDC; 1 A) 1 x RS-232 interface
Operation status indicator	<ul style="list-style-type: none"> Green LED (all channels OK) 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	≤ 2 W; ≤ 5.5 W (nominal load)
Efficiency (typ.)	96 %

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



Circuit protection

Internal fuse	T 15 A
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Safety and protection

Isolation voltage (connectors – housing)	DC 0.5 kV
Protection class	III
Protection type	IP20; per EN 60529
Reverse voltage protection	No
Resistance to reverse feed	≤ DC 33 V
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

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

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



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
Recupel Type	
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
Customs tariff number	85363010900

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals

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

Declarations of conformity and manufacturer's declarations

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

Optional accessories

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

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		

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

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

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

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

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 www.wago.com/793-5501

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

Downloads

Documentation

Bid Text

787-860 docx - Datei	2019 年7月3日	docx 19.0 kB	Download
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787-860 X81 - Datei	2019 年7月3日	xml 7.3 kB	Download
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Instruction Leaflet

EPSITRON Electronic Circuit Breaker 4 x DC 24 V, 1...6 A		pdf 755.5 kB	Download
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Additional Information

Disposal and Recycling Electrical and electronic equipment, Batteries, Packaging	V 1.1.0 2022 年8月18日	pdf 2.2 MB	Download
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Libraries

Library

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Anbindung Stromversorgungen Serie 787	1.3.0	zip	Download
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.	2014 年5月14 日	562.7 kB	

Engineering-Software

Configuration and Commissioning Software

WAGO Software 759-860	1.2.6	zip	Download
Software 759-860, for configuration and visualization of electronic circuit breakers 787-860, 787-861 und 787-862	2012 年2月16 日	521.5 kB	

CAD/CAE-Data

CAD data

2D/3D Models 787-860		URL	Download
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CAE data

WSCAD Universe 787-860		URL	Download
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ZUKEN Portal 787-860		URL	Download
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EPLAN Data Portal 787-860		URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-860		URL	Download
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Installation Notes

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