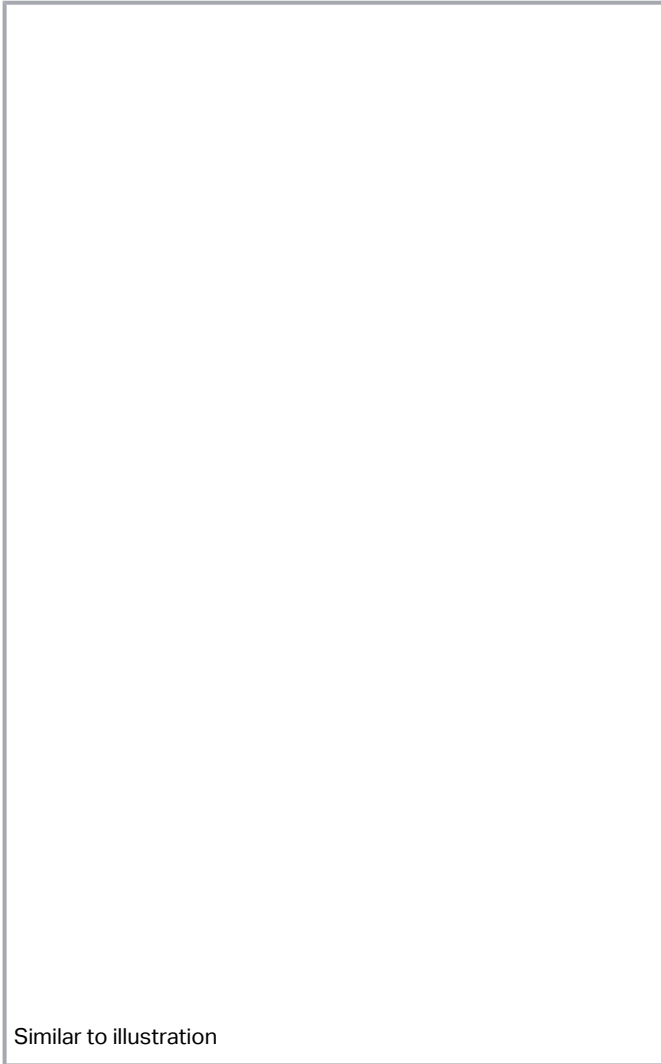


**Data sheet | Item number: 787-1662**

Electronic circuit breaker; 2-channel; 24 VDC input voltage; adjustable 2 ...  
10 A; communication capability



[www.wago.com/787-1662](http://www.wago.com/787-1662)



Similar to illustration

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

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## Item description

### Features:

- Space-saving ECB with two channels
- Nominal current: 2 ... 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 50,000  $\mu$ F per channel
- One illuminated, three-colored button per channel simplifies switching (on/off), resetting, and on-site diagnostics
- Time-delayed switching of channels
- Tripped message (group signal)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

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## 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)	2
Nominal output voltage $U_{o\text{nom}}$	2 x DC 24 V
Output voltage range	DC 18 ... 30 V ( $U_e$ – voltage drop)
Voltage drop	$\leq 200$ mV (10 A) (Input (+))
Nominal output current $I_{o\text{nom}}$	2 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
Default setting	DC 10 A; switched on
Switch-on capacity	$> 50000$ $\mu\text{F}$ per channel
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	No
Current limitation	No

#### Signaling and communication

Signaling	2 x LED (green/red/orange) 1 x Remote control input (S1) 2 x Active signal output (S2; S3)
Operation status indicator	Green LED (channel OK) Red LED (tripped channel)
Remote input	Reactivation of all tripped channels via 15 ... 30 VDC pulse for min. 500 ms Switching on/off any number of channels via pulse sequence

#### Efficiency/power losses

Power loss $P_l$	$\leq 0.85$ W; $\leq 5.5$ W (2 x 10 A)
Efficiency (typ.)	99 %

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

## Circuit protection

Internal fuse	T 15 A per channel
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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 35 V
Pollution degree	2
Transient suppression (primary)	Suppressor diode (33 V)
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 <sup>2</sup> / 20 ... 8 AWG
Fine-stranded conductor	0.5 ... 10 mm <sup>2</sup> / 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 721 Series
Solid conductor 2	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Fine-stranded conductor 2	0.08 ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Strip length 2	8 ... 9 mm / 0.31 ... 0.35 inches

## Physical data

Width	45 mm / 1.772 inches
Height	90 mm / 3.543 inches
Depth from upper-edge of DIN-rail	115.5 mm / 4.547 inches

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



## Mechanical data

Mounting type	DIN-35 rail
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## Material data

Weight	200 g
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## Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
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Ambient temperature (storage)	-25 ... +85 °C
-------------------------------	----------------

Relative humidity	5 ... 96 % (no condensation permissible)
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Derating	No derating
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## Standards and specifications

Conformity marking	CE
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Standards/specifications	EN 61000-6-2 EN 61000-6-3 UL 508 UL 2367 DNV
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## Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
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eCl@ss 10.0	27-37-18-02
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eCl@ss 9.0	27-37-18-02
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ETIM 8.0	EC001440
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ETIM 7.0	EC001440
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Recupel Type	
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PU (SPU)	1 pcs
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Packaging type	Box
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Country of origin	DE
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Customs tariff number	85363010900
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## Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
------------------------	-------------------------

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## Approvals / Certificates

### General approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>EAC</b> Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC_Certificate_RU_C-DE.AM02.B.00115_19
	<b>UL</b> Underwriters Laboratories Inc.	UL 508	E255817
	<b>UR</b> Underwriters Laboratories Inc.	UL 2367	E363438

### Declarations of conformity and manufacturer's declarations

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

### Approvals for marine applications

Logo	Approval	Additional Approval Text	Certificate name
	<b>DNV</b> DNV GL SE	-	TAA0000281

## Optional accessories

### Tool

Operating tool		
<b>Item no.: 210-721</b>	Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured	<a href="http://www.wago.com/210-721">www.wago.com/210-721</a>
<b>Item no.: 210-769</b>	SCREWDRIVER; green	<a href="http://www.wago.com/210-769">www.wago.com/210-769</a>
<b>Item no.: 210-720</b>	Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured	<a href="http://www.wago.com/210-720">www.wago.com/210-720</a>

### Marking accessories

Marking strip		
<b>Item no.: 2009-110</b>	Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/2009-110">www.wago.com/2009-110</a>
<b>Item no.: 210-831</b>	Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-831">www.wago.com/210-831</a>
<b>Item no.: 210-832</b>	Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white	<a href="http://www.wago.com/210-832">www.wago.com/210-832</a>

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## Marker

<b>Item no.: 2009-145</b> Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	<a href="http://www.wago.com/2009-145">www.wago.com/2009-145</a>
<b>Item no.: 2009-115</b> WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	<a href="http://www.wago.com/2009-115">www.wago.com/2009-115</a>
<b>Item no.: 248-501</b> Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/248-501">www.wago.com/248-501</a>
<b>Item no.: 793-501</b> WMB marking card; as card; not stretchable; plain; snap-on type; white	<a href="http://www.wago.com/793-501">www.wago.com/793-501</a>
<b>Item no.: 793-5501</b> WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white	<a href="http://www.wago.com/793-5501">www.wago.com/793-5501</a>

## Downloads

## Documentation

## Manual

Product Manual Electronic Circuit Breaker 24 VDC / 2 x 2...10 A	V 1.0.0	pdf 1.3 MB	Download
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## Bid Text

787-1662 X81 - Datei	2019 年7月3日	xml 7.2 kB	Download
787-1662 docx - Datei	2019 年7月2日	docx 20.9 kB	Download
ausschreiben.de 787-1662		URL	Download

## Instruction Leaflet

Elektronische Schutzschalter Elektronische Absicherung, DC 24 V / 2x10 A		pdf 991.9 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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## Application Notes

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## Application note SIEMENS

Elektronische Schutzschalter Serie 787 ab FW2.24 (a500371)	1.0.0	zip	Download
S7 Bausteine für die Serie 787 (Epsitron, elektronische Schutzschalter und 3 Phasen Netzgeräte).	2017 年2月14 日	13.4 MB	

## Libraries

### CoDeSys 3.x Library

Libraries for CODESYS V3.x	2023-03-24	ZIP	Download
WAGO libraries based on CODESYS V3.x control systems	2023 年3月24 日	64.3 MB	
<ul style="list-style-type: none"> <li>■ WagoAppASi</li> <li>■ WagoAppCanLayer2</li> <li>■ WagoAppCom</li> <li>■ WagoAppDALI</li> <li>■ WagoAppDCDriveController</li> <li>■ WagoAppDigitalImpulseInterface</li> <li>■ WagoAppEnOcean</li> <li>■ WagoAppFuse</li> <li>■ WagoAppHART</li> <li>■ WagoAppIOLink</li> <li>■ WagoAppM_Bus</li> <li>■ WagoAppMP_Bus</li> <li>■ WagoAppPowerMeasurement</li> <li>■ WagoAppRTC</li> <li>■ WagoAppSMI</li> <li>■ WagoAppSolenoid</li> <li>■ WagoAppStepper</li> <li>■ WagoAppVibrationMonitoring</li> </ul>			

CODESYS Control Win V3 x64 is used as a test instance in version 3.5.18.20.

### Library

Anbindung Stromversorgungen Serie 787	1.0.0	zip	Download
Die Bibliothek "WagoLib787_02.lib" stellt Funktionsbausteine und Visualisierungen zur Verfügung, mit deren Hilfe die Informationen der WAGO Stromversorgungsmodule der Serie 787 angezeigt werden können.	2017 年8月28 日	348.4 kB	
Anbindung Stromversorgungen Serie 787	1.3.0	zip	Download

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





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

## CAD/CAE-Data

### CAD data

2D/3D Models 787-1662	<a href="#">URL</a>	<a href="#">Download</a>
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### CAE data

EPLAN Data Portal 787-1662	<a href="#">URL</a>	<a href="#">Download</a>
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WSCAD Universe 787-1662	<a href="#">URL</a>	<a href="#">Download</a>
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ZUKEN Portal 787-1662	<a href="#">URL</a>	<a href="#">Download</a>
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 787-1662	<a href="#">URL</a>	<a href="#">Download</a>
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Electronic circuit breaker; 2-channel; 24 VDC input voltage; adjustable 2 ... 10 A; communication capability

## Installation Notes

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