

Data sheet | Item number: 787-1664/000-200

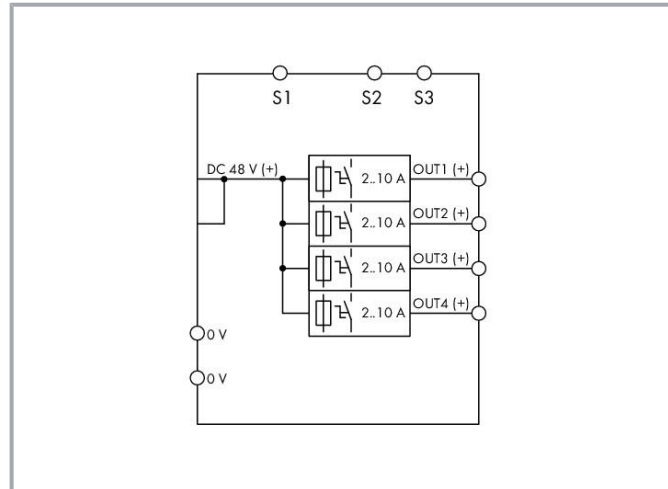
Electronic circuit breaker; 4-channel; 48 VDC input voltage; adjustable 2 ...
10 A; communication capability

www.wago.com/787-1664/000-200



Picture differs from the item.

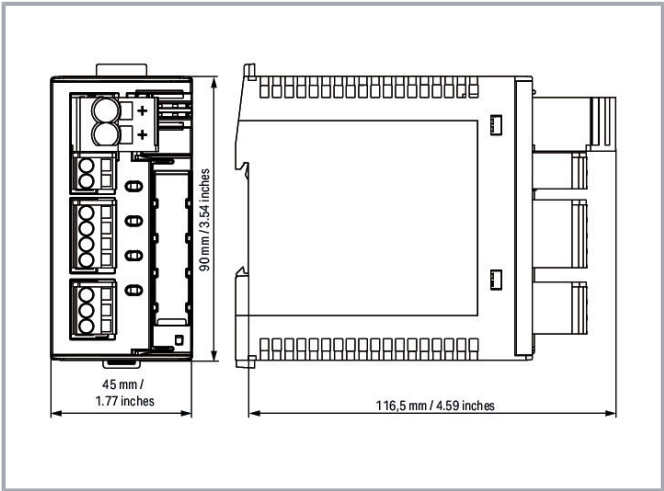
Similar to picture



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

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Item description

Features:

- Space-saving ECB with four channels
- Nominal current: 2 ... 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 23000 µF 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

Data
Technical data

Input

Nominal input voltage $U_{i\,nom}$	DC 48 V
Input voltage range	DC 32 ... 58 V

Output

Total number of channels (module)	4
Nominal output voltage $U_{o\,nom}$	4 x DC 48 V
Output voltage range	DC 32 ... 58 V (U_e – voltage drop)

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Voltage drop	≤ 175 mV (10 A) (Input (+))
Nominal output current $I_{o\ nom}$	4 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	> 23000 µF per channel at 48 VDC, 2.5 mm ² cable cross section and 2.5 m cable length
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	4 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 ... 58 VDC pulse for min. 500 ms Switching on/off any number of channels via pulse sequence

Efficiency/power losses

Power loss P_I	≤ 0.84 W; ≤ 8 W (4 x 10 A)
Efficiency (typ.)	99 %

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 58 V
Pollution degree	2
Transient suppression (primary)	Suppressor diode (68 V)
Parallel operation of single channels	Not permitted
Series operation	No

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



MTBF	> 500,000 h (per IEC 61709)
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Connection data

Connection type 1	Input (+)
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 831 Series
Solid conductor	0.5 ... 10 mm² / 20 ... 8 AWG
Fine-stranded conductor	0.5 ... 10 mm² / 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 mm² / 28 ... 12 AWG
Fine-stranded conductor 2	0.08 ... 2.5 mm² / 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

Mechanical data

Mounting type	DIN-35 rail
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Material data

Fire load	0.651 MJ
Weight	170 g

Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-25 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	≥ 50 °C (see instruction manual)

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Standards and specifications

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

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
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
	EAC Brjansker Zertifizierungsstelle	TP TC 020/2011	EAC_Certificate_RU_C-DE.AM02.B.00115_19

Declarations of conformity and manufacturer's declarations

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

Approvals for marine applications

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Logo	Approval	Additional Approval Text	Certificate name
	DNV DNV GL SE	-	TAA0000281

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



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

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Item no.: 210-769
SCREWDRIVER; green

www.wago.com/210-769



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

787-1664/000-200 X81 - Datei	2019 Jul 3	xml 7.4 kB	Download
787-1664/000-200 docx - Datei	2019 Jul 2	docx 21.5 kB	Download

Instruction Leaflet

Elektronische Schutzschalter Elektronische Absicherung, DC 48 V / 4x10 A		pdf 605.5 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

CoDeSys 3.x Library

Libraries for CODESYS V3.x	2023-03-24	ZIP	Download
WAGO libraries based on CODESYS V3.x control systems	2023 Mar 24	64.3 MB	
■ WagoAppASi ■ WagoAppCanLayer2 ■ WagoAppCom ■ WagoAppDALI ■ WagoAppDCDriveController ■ WagoAppDigitalImpulseInterface ■ WagoAppEnOcean ■ WagoAppFuse			

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- WagoAppHART
- WagoAppIOLink
- WagoAppM_Bus
- WagoAppMP_Bus
- WagoAppPowerMeasurement
- WagoAppRTC
- WagoAppSMI
- WagoAppSolenoid
- WagoAppStepper
- WagoAppVibrationMonitoring

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 Aug 28	348.4 kB	
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 May 14	562.7 kB	

CAD/CAE-Data

CAE data

EPLAN Data Portal 787-1664/000-200	URL	Download
WSCAD Universe 787-1664/000-200	URL	Download
ZUKEN Portal 787-1664/000-200	URL	Download
EPLAN Data Portal 787-1664/000-200	URL	Download
WSCAD Universe 787-1664/000-200	URL	Download

CAD data

2D/3D Models 787-1664/000-200	URL	Download
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Asset Administration Shell

Asset Administration Shell 787-1664/000-200	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1664/000-200	URL	Download
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Installation Notes

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