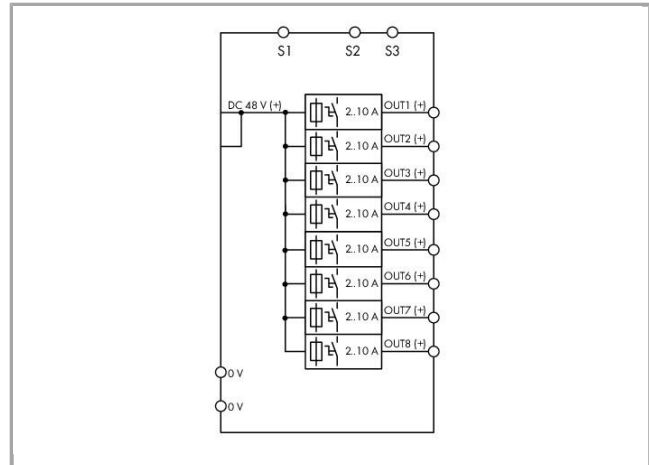


Data sheet | Item number: 787-1668/000-200

electronic circuit breaker; 8-channel; 48 VDC input voltage; adjustable 2 ...
10 A; Signal contact



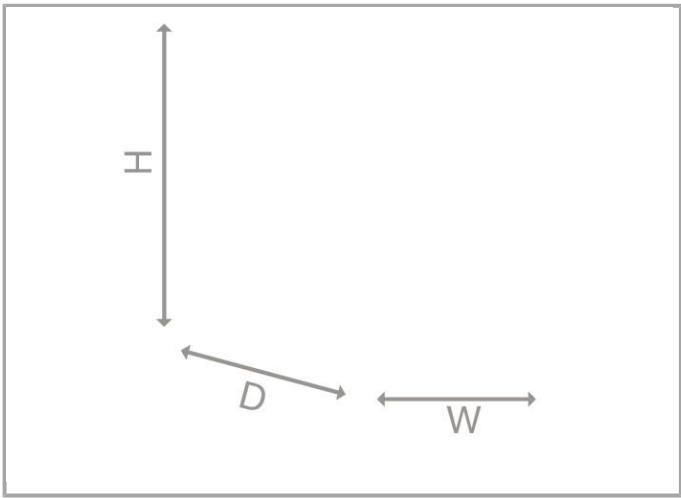
787-1668/000-200



RoHS  Compliant

BOMcheck.net

Similar to picture



Item description

Features:

- Space-saving ECB with eight channels
- 2–10 A nominal current, 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 $U_{i\text{ nom}}$	DC 48 V
Input voltage range	DC 32 ... 58 V

Output

Total number of channels (module)	8
Nominal output voltage $U_{o\text{ nom}}$	8 x DC 48 V
Output voltage range	DC 32 ... 58 V (U_i – voltage drop)
Voltage drop	≤ 200 mV (Input (+))
Nominal output current $I_{o\text{ nom}}$	8 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch; max. 70 A in total)
Factory preset	DC 10 A; switched on



Trip time	16 ms ... 100 s (Load-dependent)
Switch-on capacity	> 23000 μ F 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

Signaling and communication

Signaling	8 x LED (green/red/orange) 1 x remote input (S1) 2 x active signal output (S2, S3)
Operation status indicator	LED green (channel OK) LED red (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_v	≤ 1.3 W (no load); ≤ 20 W (8 x 10 A)
Efficiency	99 %

Fuse protection:

Internal fuse	T 15 A per channel
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Safety and protection:

Insulation voltage (connectors-housing)	DC 0.5 kV
Protection class	III
Protection class	IP20 (per EN 60529)
Reverse voltage protection	No
Feedback voltage	$\leq$ DC 58 V
Transient protection, primary	Suppressor diode, 68 V
Parallel operation of single channels	Not permitted
Series connection	No
MTBF	> 500,000 h (per IEC 61709)

Connection data

Connection type (1)	Input (+)
Connection technology	Push-in CAGE CLAMP®
WAGO terminal	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 inch
Connection type (2)	Input (-), output, signaling
Connection technology 2	CAGE CLAMP®
WAGO terminal 2	WAGO 721 Series
Solid conductor (2)	0.08 ... 2.5 mm² / 28 ... 12 AWG
Strip length (2)	8 ... 9 mm / 0.31 ... 0.35 inch

Geometrical Data

Width	42 mm / 1.654 inch
Height	127 mm / 5 inch
Length from upper-edge of DIN-35 rail	142.5 mm / 5.61 inch

Mechanical data

Type of mounting	DIN-35 rail (EN 60715)
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Material Data

Weight	440 g
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Environmental Requirements

Surrounding air (operating) temperature	-25 ... 70 °C
Surrounding air (storage) temperature	-25 ... 85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	≥ 50 °C: see instruction manual
Pollution degree	2

Standards and specifications

Conformity marking	1
Standards/specifications	UL 508*; UL 2367*; GL*; EN 60950; EN 61000-6-2; EN 61000-6-3 (*pending)

Commercial data

Country of origin	DE
GTIN	4055143329606
Customs Tariff No.	85363010900

Approvals / Certificates

Ship Approvals

Logo	Approval	Additional Approval Text	Certificate name
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DNV GL
 Det Norske Veritas, Germanischer Lloyd

TAA0000281

Compatible products

Marking accessories

	Item no.: 2009-110 Marking strips; on reel; not stretchable; plain; snap-on type	2009-110
	Item no.: 2009-115 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-115
	Item no.: 2009-115/000-002 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-115 /000-002
	Item no.: 2009-115/000-006 WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-115 /000-006
	Item no.: 2009-115/000-007 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-115 /000-007
	Item no.: 2009-115/000-012 WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-115 /000-012
	Item no.: 2009-115/000-017 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-115 /000-017
	Item no.: 2009-115/000-023 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-115 /000-023
	Item no.: 2009-115/000-024 WMB-Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-115 /000-024
	Item no.: 2009-135 WMB-Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-135
	Item no.: 2009-145 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-145
	Item no.: 2009-145/000-002 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	2009-145 /000-002

	Item no.: 2009-145/000-005 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/000-005	2009-145
	Item no.: 2009-145/000-006 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/000-006	2009-145
	Item no.: 2009-145/000-007 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/000-007	2009-145
	Item no.: 2009-145/000-012 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/000-012	2009-145
	Item no.: 2009-145/000-023 Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/000-023	2009-145
	Item no.: 2009-145/000-024 Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type	/000-024	2009-145
	Item no.: 210-831 Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive		210-831
	Item no.: 210-832 Marking strips; on reel; 3 mm wide; plain; Self-adhesive		210-832
	Item no.: 248-501 Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card		248-501
	Item no.: 248-501/000-002 Mini-WSB marking card; as card; not stretchable; plain; snap-on type	/000-002	248-501
	Item no.: 248-501/000-005 Mini-WSB marking card; as card; not stretchable; plain; snap-on type	/000-005	248-501
	Item no.: 248-501/000-006 Mini-WSB marking card; as card; not stretchable; plain; snap-on type	/000-006	248-501
	Item no.: 248-501/000-007 Mini-WSB marking card; as card; not stretchable; plain; snap-on type	/000-007	248-501
	Item no.: 248-501/000-012 Mini-WSB marking card; as card; not stretchable; plain; snap-on type	/000-012	248-501
	Item no.: 248-501/000-017 Mini-WSB marking card; as card; not stretchable; plain; snap-on type	/000-017	248-501

**Item no.: 248-501/000-023**

Mini-WSB marking card; as card; not stretchable; plain; snap-on type

248-501

/000-023

**Item no.: 793-501**

WMB marking card; as card; not stretchable; plain; snap-on type

793-501

**Item no.: 793-501/000-002**

WMB marking card; as card; not stretchable; plain; snap-on type

793-501

/000-002

**Item no.: 793-501/000-005**

WMB marking card; as card; not stretchable; plain; snap-on type

793-501

/000-005

**Item no.: 793-501/000-006**

WMB marking card; as card; not stretchable; plain; snap-on type

793-501

/000-006

**Item no.: 793-501/000-007**

WMB marking card; as card; not stretchable; plain; snap-on type

793-501

/000-007

**Item no.: 793-501/000-012**

WMB marking card; as card; not stretchable; plain; snap-on type

793-501

/000-012

**Item no.: 793-501/000-017**

WMB marking card; as card; not stretchable; plain; snap-on type

793-501

/000-017

**Item no.: 793-501/000-023**

WMB marking card; as card; not stretchable; plain; snap-on type

793-501

/000-023

**Item no.: 793-501/000-024**

WMB marking card; as card; not stretchable; plain; snap-on type

793-501

/000-024

**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

793-5501

**Item no.: 793-5501/000-002**

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

793-5501

/000-002

**Item no.: 793-5501/000-005**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type

793-5501

/000-005

**Item no.: 793-5501/000-006**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type

793-5501

/000-006

**Item no.: 793-5501/000-007**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type

793-5501

/000-007

**Item no.: 793-5501/000-012**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type

/000-012

793-5501

**Item no.: 793-5501/000-014**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type

/000-014

793-5501

**Item no.: 793-5501/000-017**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type

/000-017

793-5501

**Item no.: 793-5501/000-023**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type

/000-023

793-5501

**Item no.: 793-5501/000-024**

WMB marking card; as card; stretchable 5 - 5.2 mm; plain; snap-on type

/000-024

793-5501

tools

**Item no.: 210-720**

Operating tool with partially insulated shaft; Type 2, blade (3.5 x 0.5) mm

210-720

**Item no.: 210-721**

Operating tool with partially insulated shaft; Type 3, blade (5.5 x 0.8) mm

210-721

**Item no.: 210-769**

SCREWDRIVER

210-769

ferrule

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

216-201

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

216-202

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

216-203

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

216-204

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

216-205

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

216-206

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

216-207

**Item no.: 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

216-208

**Item no.: 216-221**Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated

216-221

	Item no.: 216-222 Ferrule; Sleeve for 0.75 mm ² / 18 AWG; insulated; electro-tin plated	216-222
	Item no.: 216-223 Ferrule; Sleeve for 1 mm ² / AWG 18; insulated; electro-tin plated	216-223
	Item no.: 216-224 Ferrule; Sleeve for 1.5 mm ² / AWG 16; insulated; electro-tin plated	216-224
	Item no.: 216-241 Ferrule; Sleeve for 0.5 mm ² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	216-241
	Item no.: 216-242 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	216-242
	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	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	216-244
	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	216-246
	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	216-262
	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	216-263
	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	216-264
	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	216-266
	Item no.: 216-267 Ferrule; Sleeve for 4 mm ² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90	216-267
	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	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	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	216-287
	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	216-288
	Item no.: 216-301 Ferrule; Sleeve for 0.25 mm ² / AWG 24; insulated; electro-tin plated	216-301



Item no.: 216-302
 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated

216-302

Item no.: 216-321
 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated

216-321



Item no.: 216-322
 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated

216-322

Downloads

Documentation

Bid Text

787-1668/000-200	Jan 14, 2016	doc	Download
Stromversorgung EPSITRON		39.4 kB	

Instruction Leaflet

EPSITRON Electronic Circuit Breakers		pdf	Download
Electronic Circuit Breaker, 48 VDC / 8x10 A		605.5 kB	

Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf	Download
		265.8 kB	

Libraries

CoDeSys 3.x Library

Libraries for CODESYS V3.x	Feb 26, 2019	ZIP	Download
WAGO libraries based on CODESYS V3.x control systems		17.4 MB	

- - WagoAppASi
- - WagoAppCanLayer2
- - WagoAppCom
- - WagoAppDALI
- - WagoAppDCDriveController
- - WagoAppDigitalImpulseInterface
- - WagoAppFuse
- - WagoAppIOLink
- - WagoAppPowerMeasurement
- - WagoAppSolenoid
- - WagoAppStepper
- - WagoAppVibrationMonitoring

"CODESYS Control Win V3" is used as a test instance in version 3.5.11.10.



Library

Connection of 787 Series power supplies	V1.0.0	zip	Download
The WagoLib787_02.lib library makes function blocks and visualization objects available which can be used to display information from the WAGO 787 Series power supply modules.	Aug 28, 2017	348.4 kB	
Connection of 787 Series power supplies	V1.3.0	zip	Download
The WagoLib787_01.lib library makes function blocks and visualization objects available which can be used to display information from the WAGO 787 Series power supply modules.	May 14, 2014	562.7 kB	

Subject to changes.