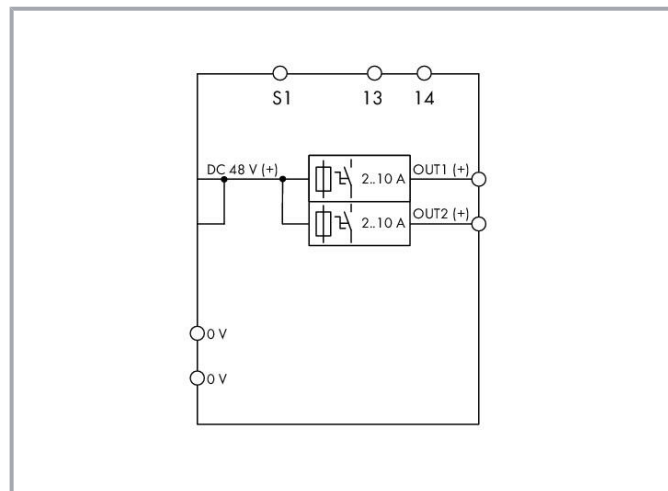
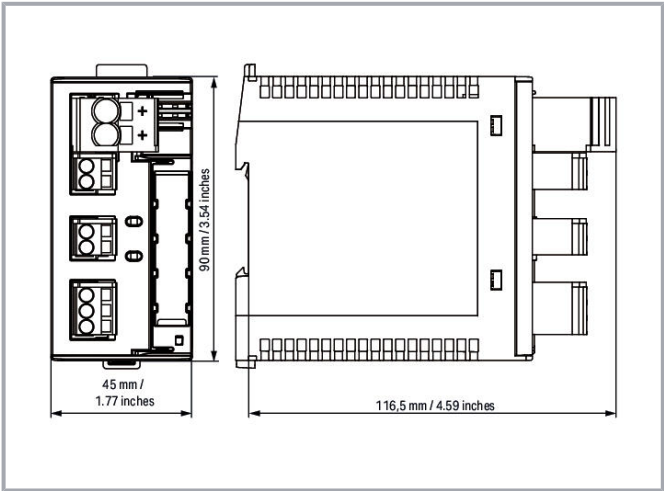






Item description

Features:

- Space-saving ECB with two channels
- Nominal current: 2 ... 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 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 (common group signal) via isolated contact (13/14)
- Remote input resets all tripped channels
- Potential-free signal contact 13 / 14 reports "channel switched off" and "tripped channel" – does not support communication 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)	2
Nominal output voltage $U_{o\,nom}$	2 x DC 48 V

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

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Output voltage range	DC 32 ... 58 V (U_e – voltage drop)
Voltage drop	≤ 175 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	> 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
Current limitation	No

Signaling and communication

Signaling	2 x LED (green/red/orange) 1 x Remote control input (S1) 1 x Group signal contact (13; 14)
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

Efficiency/power losses

Power loss P_l	≤ 0.84 W; ≤ 4.5 W (2 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	$\leq$ DC 58 V
Pollution degree	2
Transient suppression (primary)	Suppressor diode (68 V)
Parallel operation of single channels	Not permitted

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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 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	0.655 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	No derating

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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	
ECCN	NO DATA
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 GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081

Declarations of conformity and manufacturer's declarations

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

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Approvals for marine applications

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			

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

**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.: 210-769**

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**

787-1662/000-250	2019 年7月3日	xml	Download
X81 - Datei		7.3 kB	

787-1662/000-250	2019 年7月2日	docx	Download
docx - Datei		21.2 kB	

Instruction Leaflet

Elektronische Schutzschalter		pdf	Download
Elektronische Absicherung, DC 24 V / 2x10 A		585.7 kB	

Additional Information

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

Application Notes**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	

CAD/CAE-Data**CAE data**

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EPLAN Data Portal 787-1662/000-250	URL	Download
WSCAD Universe 787-1662/000-250	URL	Download
WSCAD Universe 787-1662/000-250	URL	Download
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Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1662/000-250	URL	Download
Electronic circuit breaker; 2-channel; 48 VDC input voltage; adjustable 2 ... 10 A; Signal contact		

Installation Notes

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