



Features:

- Space-saving ECB with one channel
- Reliably and safely trips in the event of an overload and short circuit on the secondary side
- Switch-on capacity > 50,000 µF
- Enables the use of an economical, standard power supply
- Minimizes wiring via two voltage outputs and maximizes commoning options on both input and output sides (e.g., commoning of the output voltage on 857 and 2857 Series devices)
- Status signal – adjustable as single or group message
- Reset, switch on/off via remote input or local switch
- Prevents power supply overload due to total inrush current thanks to time-delayed switching on during interconnected operation

Notes	
Note	The device is designed for use in SELV circuits. Depending on the output current, please use the approved minimum conductor cross-sections.



Technical data			
Input		Output	
Nominal input voltage $U_{i\,nom}$	24 VDC	Total number of channels (module)	1
Input voltage range	18 ... 30 VDC	Nominal output voltage $U_{o\,nom}$	1 x 24 VDC
		Output voltage range	18 ... 30 VDC (U_e – voltage drop)
		Voltage drop	≤ 80 mV
		Nominal output current $I_{o\,nom}$	1 x 1 A (fixed setting)
		Default Setting	switched off
		Trip time	4 ms ... 100 s (load-dependent)
		Switch-on capacity	
		Switch-on behavior	Time-delayed channel switching (load-dependent, min. 0 ms / max. 500 ms)
Signaling and communication		Efficiency/power losses	
Signaling	1 x Status LED (green/yellow/red) 1 x Signal output (18 ... 30 VDC, max. 0.015 A), Default setting: triggered	Power loss P_I	≤ 0.4 W (no load)
Operation status indicator	Green LED (channel OK) Red LED (channel switched off)	Efficiency (typ.)	98 %
Remote input	1 x Control input (15 ... 30 VDC (active high); 0 ... 5 VDC (active low); max. 0.015 A)		
Circuit protection			
Internal fuse	T 8 A		
Safety and protection			
Isolation voltage (connectors – housing)	1.5 kVDC	Insulation coordination (UL)	
Protection class	III	Overvoltage category	II
Protection type	IP20; per EN 60529	Pollution degree	2
Reverse voltage protection	No		
Transient suppression (primary)	Suppressor diode (33 V)		
Parallel operation of single channels	Not permitted		
Series operation	No		
MTBF	1,168,394 h		
Insulation coordination			
Overvoltage category	II		
Pollution degree	2		
Connection data			
Number of jumper slots	8	Connection 1	
		Connection technology	Push-in CAGE CLAMP®
		WAGO connector	WAGO 857 Series
		Solid conductor	0.08 ... 2.5 mm² / 26 ... 14 AWG
		Fine-stranded conductor	0.34 ... 2.5 mm² / 22 ... 14 AWG
		Strip length	9 ... 10 mm / 0.35 ... 0.39 inches



Connection 1

Note (conductor cross-section)	Depending on the output current, use the conductor cross-sections tested and approved by UL: 26 ... 14 AWG (0.5 A); 24 ... 14 AWG (1 A)
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Physical data

Width	6 mm / 0.236 inches
Height	94 mm / 3.701 inches
Depth from upper-edge of DIN-rail	97.8 mm / 3.85 inches

Mechanical data

Mounting type	DIN-35 rail
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Material data

Fire load	0.631 MJ
Weight	55.6 g

Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Derating	No derating
Operating altitude	≤ 2000 m (a.s.l.)

Standards and specifications

Conformity marking	CE; UKCA
Standards/specifications	EN 61000-6-2 EN 61000-6-3 UL 61010-2-201 DNV UL 2367

Commercial data

PU (SPU)	1 pcs
Packaging type	Bag
Country of origin	IN
Customs tariff number	85363010000

Product classification


UNSPSC	39121634
ETIM 9.0	EC001440
ETIM 8.0	EC001440
ECCN	NO US CLASSIFICATION



Environmental Product Compliance	
CAS-No.	11120-22-2 1303-86-2 1317-36-8 7439-92-1
REACH Candidate List Substance	Diboron trioxide Lead Lead monoxide Lead silicate
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	9e067f59-577d-4cfb-8b69-04df1b193138
SCIP notification number (Belgium)	a917f448-f4b2-4ea1-a678-678ebc4b93ef
SCIP notification number (Bulgaria)	34f9cdb2-b53b-49f1-a947-7641bd1eed82
SCIP notification number (Czech Republic)	04616c3f-ac9f-4f17-a537-4789d7e8165f
SCIP notification number (Denmark)	1b2c0c5d-4143-4d8b-b5e7-02a050298f2e
SCIP notification number (Finland)	10c1551d-b458-47cd-bbc4-b81ec6f05b40
SCIP notification number (France)	40f30069-59d8-4b3e-8328-48c0b37004ae
SCIP notification number (Germany)	854b209f-d3ab-406b-828a-9d454d8dfc60
SCIP notification number (Hungary)	c2f1f72a-0608-410c-8617-9305b2782cf5
SCIP notification number (Netherlands)	36aa65d4-861b-445a-ac3d-8becee207236
SCIP notification number (Poland)	f10033e6-a0d4-4526-bc57-b3dc8a2ce172
SCIP notification number (Romania)	cadcbf5e-8105-4fae-ab85-9d3a6691bb41
SCIP notification number (Sweden)	3c1a8af4-1e6c-46f6-9fa6-da05f95c7f9d

Approvals / Certificates


General approvals




Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 61010-2-201	UL E175199 Vol.3 Sec.5
UR Underwriters Laboratories Inc.	-	E175199

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-

Approvals for marine applications		
		
Approval	Standard	Certificate Name
DNV DNV Germany GmbH	DNV-CG-0339,Aug.2021	TAA00001D1

Approvals for hazardous areas		
		
Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726



Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 787-3861/100-000



Documentation

Manual
Product Manual Elec- tronic circuit breaker
V 1.0.0 25.03.2024
pdf 7621.68 KB



Instruction Leaflet
Electronic Circuit Brea- ker
V 1.1.1 11.09.2023
pdf 2491.12 KB



CAD/CAE-Data

CAD data
2D/3D Models 787-3861/100-000



1 Compatible Products

1.1 Optional Accessories

1.1.1 Jumper

1.1.1.1 Jumper



[Item No.: 859-410/000-006](#)
Jumper; for jumper slot; 10-way; insula-
ted; blue



[Item No.: 859-410](#)
Jumper; for jumper slot; 10-way; insula-
ted; light gray



[Item No.: 859-410/000-005](#)
Jumper; for jumper slot; 10-way; insula-
ted; red



[Item No.: 859-410/000-029](#)
Jumper; for jumper slot; 10-way; insula-
ted; yellow



[Item No.: 859-402/000-006](#)
Jumper; for jumper slot; 2-way; insulated;
blue



[Item No.: 859-402](#)
Jumper; for jumper slot; 2-way; insulated;
light gray



[Item No.: 859-402/000-029](#)
Jumper; for jumper slot; 2-way; insulated;
yellow



[Item No.: 859-403/000-006](#)
Jumper; for jumper slot; 3-way; insulated;
blue



[Item No.: 859-403](#)
Jumper; for jumper slot; 3-way; insulated;
light gray



[Item No.: 859-403/000-005](#)
Jumper; for jumper slot; 3-way; insulated;
red



[Item No.: 859-403/000-029](#)
Jumper; for jumper slot; 3-way; insulated;
yellow



[Item No.: 859-404/000-006](#)
Jumper; for jumper slot; 4-way; insulated;
blue



[Item No.: 859-404](#)
Jumper; for jumper slot; 4-way; insulated;
light gray



[Item No.: 859-404/000-005](#)
Jumper; for jumper slot; 4-way; insulated;
red



[Item No.: 859-404/000-029](#)
Jumper; for jumper slot; 4-way; insulated;
yellow



[Item No.: 859-405/000-006](#)
Jumper; for jumper slot; 5-way; insulated;
blue



[Item No.: 859-405](#)
Jumper; for jumper slot; 5-way; insulated;
light gray



[Item No.: 859-405/000-005](#)
Jumper; for jumper slot; 5-way; insulated;
red



[Item No.: 859-405/000-029](#)
Jumper; for jumper slot; 5-way; insulated;
yellow



[Item No.: 859-406/000-006](#)
Jumper; for jumper slot; 6-way; insulated;
blue



[Item No.: 859-406](#)
Jumper; for jumper slot; 6-way; insulated;
light gray



[Item No.: 859-406/000-005](#)
Jumper; for jumper slot; 6-way; insulated;
red



[Item No.: 859-406/000-029](#)
Jumper; for jumper slot; 6-way; insulated;
yellow



[Item No.: 859-407/000-006](#)
Jumper; for jumper slot; 7-way; insulated;
blue





1.1.1.1 Jumper



Item No.: 859-407
Jumper; for jumper slot; 7-way; insulated; light gray



Item No.: 859-407/000-005
Jumper; for jumper slot; 7-way; insulated; red



Item No.: 859-407/000-029
Jumper; for jumper slot; 7-way; insulated; yellow



Item No.: 859-408/000-006
Jumper; for jumper slot; 8-way; insulated; blue



Item No.: 859-408
Jumper; for jumper slot; 8-way; insulated; light gray



Item No.: 859-408/000-005
Jumper; for jumper slot; 8-way; insulated; red



Item No.: 859-408/000-029
Jumper; for jumper slot; 8-way; insulated; yellow



Item No.: 859-409/000-006
Jumper; for jumper slot; 9-way; insulated; blue



Item No.: 859-409
Jumper; for jumper slot; 9-way; insulated; light gray



Item No.: 859-409/000-005
Jumper; for jumper slot; 9-way; insulated; red



Item No.: 859-409/000-029
Jumper; for jumper slot; 9-way; insulated; yellow

1.1.2 Marking

1.1.2.1 Marker



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



Item No.: 793-502
WMB marking card; as card; MARKED; 1 ... 10 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-566
WMB marking card; as card; MARKED; 1 ... 50 (2x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-503
WMB marking card; as card; MARKED; 11 ... 20 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-504
WMB marking card; as card; MARKED; 21 ... 30 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-505
WMB marking card; as card; MARKED; 31 ... 40 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-506
WMB marking card; as card; MARKED; 41 ... 50 (10x); not stretchable; Horizontal marking; snap-on type; white



Item No.: 793-501
WMB marking card; as card; not stretchable; plain; snap-on type; white



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

1.1.2.2 Marking strip



Item No.: 2009-110
Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

1.1.3 Potential distribution

1.1.3.1 Potential distribution module



Item No.: 787-3861/000-1000
Potential distribution module; 1 potential; with 8 clamping points 0V; Conductor cross-section up to 2.5 mm²



Item No.: 787-3861/000-2000
Potential distribution module; 1 potential; with 8 clamping points 24V; Conductor cross-section up to 2.5 mm²



Item No.: 787-3861/000-3000
Potential distribution module; 2 potentials; with 4 clamping points each (0V / 24V); Conductor cross-section up to 2.5 mm²



1.1.4 Tool

1.1.4.1 Operating tool



Item No.: 210-720
Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured