



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	≤ 160 mV
		Nominal output current $I_{o\,nom}$	1 x 2 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 $P_l$	≤ 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); 22 ... 14 AWG (2 A)

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

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	
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II



Approvals / Certificates		
General approvals		Declarations of conformity and manufacturer's declarations
		
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

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity 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 787-3861/200-000	

Documentation			
Manual		Instruction Leaflet	
Product Manual Electronic circuit breaker	V 1.0.0 25.03.2024	pdf 7539.41 KB	
		Electronic Circuit Breaker V 1.1.1 11.09.2023	pdf 2491.12 KB 



CAD/CAE-Data

CAD data




































2D/3D Models  
787-3861/200-000

1 Compatible Products

1.1 Optional Accessories

1.1.1 Jumper

1.1.1.1 Jumper

 <b>Item No.: 859-410/000-006</b> Jumper; for jumper slot; 10-way; insulated; blue	 <b>Item No.: 859-410</b> Jumper; for jumper slot; 10-way; insulated; light gray	 <b>Item No.: 859-410/000-005</b> Jumper; for jumper slot; 10-way; insulated; red	 <b>Item No.: 859-410/000-029</b> Jumper; for jumper slot; 10-way; insulated; yellow
 <b>Item No.: 859-402/000-006</b> Jumper; for jumper slot; 2-way; insulated; blue	 <b>Item No.: 859-402</b> Jumper; for jumper slot; 2-way; insulated; light gray	 <b>Item No.: 859-402/000-029</b> Jumper; for jumper slot; 2-way; insulated; yellow	 <b>Item No.: 859-403/000-006</b> Jumper; for jumper slot; 3-way; insulated; blue
 <b>Item No.: 859-403</b> Jumper; for jumper slot; 3-way; insulated; light gray	 <b>Item No.: 859-403/000-005</b> Jumper; for jumper slot; 3-way; insulated; red	 <b>Item No.: 859-403/000-029</b> Jumper; for jumper slot; 3-way; insulated; yellow	 <b>Item No.: 859-404/000-006</b> Jumper; for jumper slot; 4-way; insulated; blue
 <b>Item No.: 859-404</b> Jumper; for jumper slot; 4-way; insulated; light gray	 <b>Item No.: 859-404/000-005</b> Jumper; for jumper slot; 4-way; insulated; red	 <b>Item No.: 859-404/000-029</b> Jumper; for jumper slot; 4-way; insulated; yellow	 <b>Item No.: 859-405/000-006</b> Jumper; for jumper slot; 5-way; insulated; blue
 <b>Item No.: 859-405</b> Jumper; for jumper slot; 5-way; insulated; light gray	 <b>Item No.: 859-405/000-005</b> Jumper; for jumper slot; 5-way; insulated; red	 <b>Item No.: 859-405/000-029</b> Jumper; for jumper slot; 5-way; insulated; yellow	 <b>Item No.: 859-406/000-006</b> Jumper; for jumper slot; 6-way; insulated; blue
 <b>Item No.: 859-406</b> Jumper; for jumper slot; 6-way; insulated; light gray	 <b>Item No.: 859-406/000-005</b> Jumper; for jumper slot; 6-way; insulated; red	 <b>Item No.: 859-406/000-029</b> Jumper; for jumper slot; 6-way; insulated; yellow	 <b>Item No.: 859-407/000-006</b> Jumper; for jumper slot; 7-way; insulated; blue
 <b>Item No.: 859-407</b> Jumper; for jumper slot; 7-way; insulated; light gray	 <b>Item No.: 859-407/000-005</b> Jumper; for jumper slot; 7-way; insulated; red	 <b>Item No.: 859-407/000-029</b> Jumper; for jumper slot; 7-way; insulated; yellow	 <b>Item No.: 859-408/000-006</b> Jumper; for jumper slot; 8-way; insulated; blue
 <b>Item No.: 859-408</b> Jumper; for jumper slot; 8-way; insulated; light gray	 <b>Item No.: 859-408/000-005</b> Jumper; for jumper slot; 8-way; insulated; red	 <b>Item No.: 859-408/000-029</b> Jumper; for jumper slot; 8-way; insulated; yellow	 <b>Item No.: 859-409/000-006</b> Jumper; for jumper slot; 9-way; insulated; blue
 <b>Item No.: 859-409</b> Jumper; for jumper slot; 9-way; insulated; light gray	 <b>Item No.: 859-409/000-005</b> Jumper; for jumper slot; 9-way; insulated; red	 <b>Item No.: 859-409/000-029</b> 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 mm<sup>2</sup>



**Item No.: 787-3861/000-2000**  
Potential distribution module; 1 potential; with 8 clamping points 24V; Conductor cross-section up to 2.5 mm<sup>2</sup>



**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 mm<sup>2</sup>

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