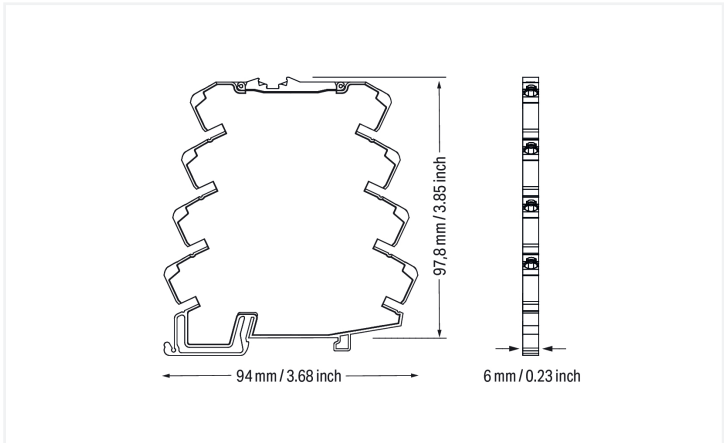
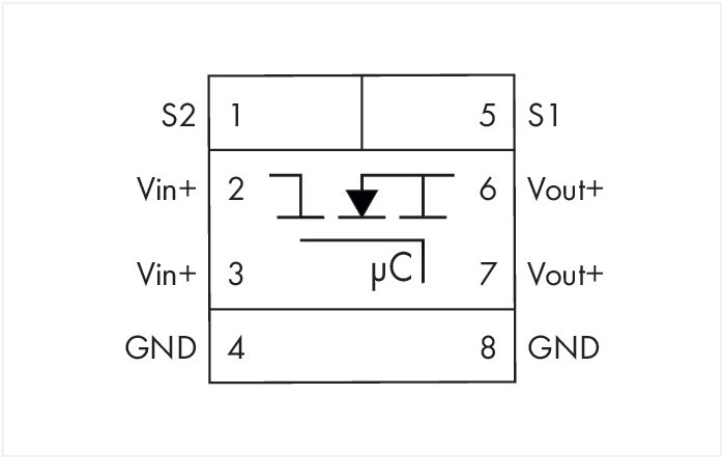
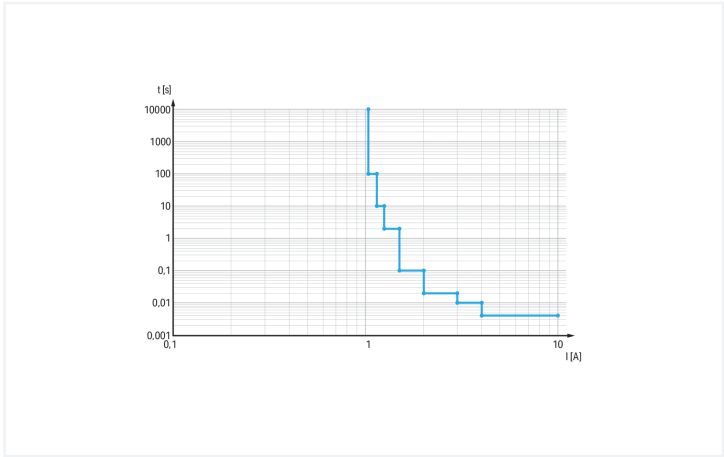
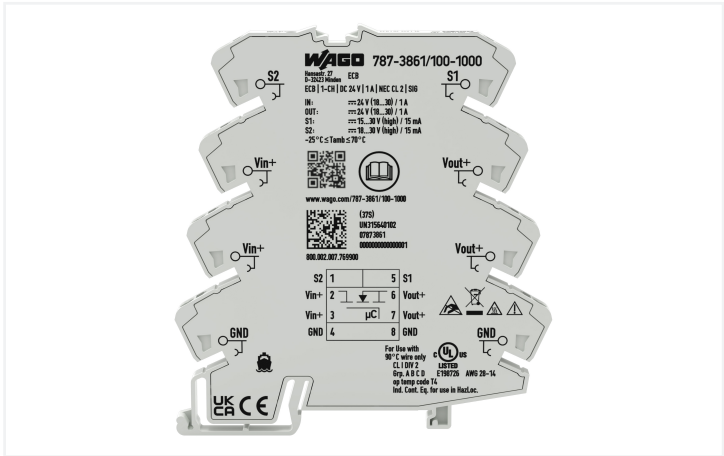
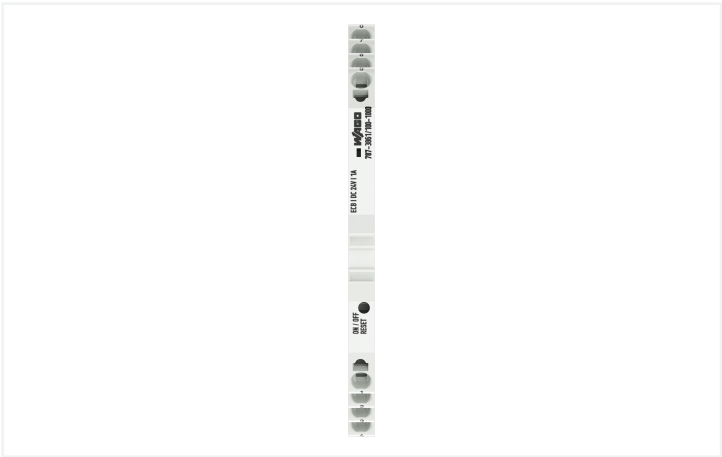






Features:

- 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 < 6,000 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)
		Switch-on threshold	DC 20.3 V

Signaling and Communication	
Signaling	1 x Status LED (green/yellow/red) 1 x Signal output (18 ... 30 VDC, max. 0.015 A), default setting: tripped
Operation status indicator	Green LED (channel OK) Red LED (channel switched off)
Remote input	1 x Control input (15 ... 30 VDC (active high); 0 ... 5 VDC (active low); max. 0.015 A)

Efficiency/Power Losses	
Power loss P_l	≤ 0.4 W (no load)
Efficiency (typ.)	98 %

Circuit Protection	
Internal fuse	T 4 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
		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)

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 1310 (NEC Class 2) UL 2367



Commercial data		
PU (SPU)		1 pcs
Packaging type		Bag
Country of origin		IN
Customs tariff number		85362010900

Product Classification		
UNSPSC		39121630
ETIM 9.0		EC001440
ETIM 10.0		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)		75dcd74a-91d1-4057-b201-b7bbf10892b5
SCIP notification number (Belgium)		1b1f27cc-07f8-4ce7-a523-8d5f28bc04d4
SCIP notification number (Bulgaria)		27661f5a-9fe4-48c0-a768-5894a0fac69d
SCIP notification number (Czech Republic)		f6cc626e-0410-4f1c-8bef-d592570df280
SCIP notification number (Denmark)		d2f0ceb3-219b-4cb9-84c2-cf20fdd9a7f
SCIP notification number (Finland)		46940890-32f6-47ff-b2c3-c5319565618e
SCIP notification number (France)		7f0370b6-61ab-4cf4-b850-79520ca088b5
SCIP notification number (Germany)		83497e1e-e446-403d-98cc-8676e9fa8977
SCIP notification number (Hungary)		12b11495-0199-4b22-92a8-24ac0c9b5a4d
SCIP notification number (Italy)		14f282f8-8926-4b87-b5d9-6e95b8e791a1
SCIP notification number (Netherlands)		d5b43b3a-9afb-44c8-a29b-a252cb4fead0
SCIP notification number (Poland)		d40ed850-9c1e-48d1-8e8c-64a87bc72eae
SCIP notification number (Romania)		7ef0433f-97c4-4f94-a73b-3f23a5f67287
SCIP notification number (Sweden)		42ca5865-1388-47a9-be81-80dcaa3ab5b6

Approvals / Certificates		
General approvals		Declarations of conformity and manufacturer's declarations
  		
Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
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 LOCA- TIONS)	UL 121201	E198726

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 787-3861/100-1000



Documentation

Manual
Product Manual Elec- tronic circuit breaker V 1.0.0 25.03.2024 pdf 7202.08 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 787-3861/100-1000



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



1.1.1.1 Jumper

 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
 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