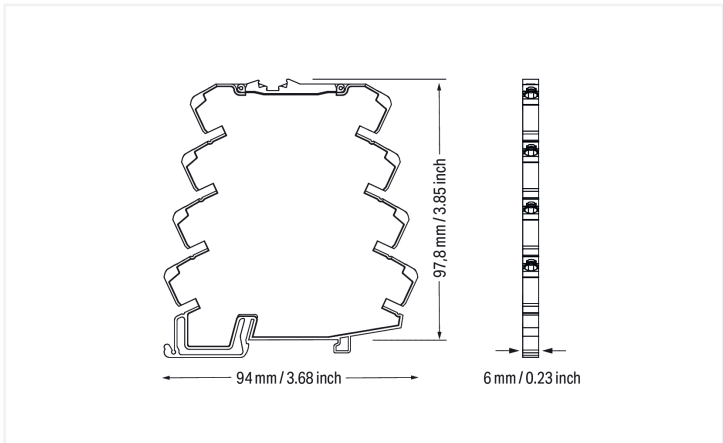
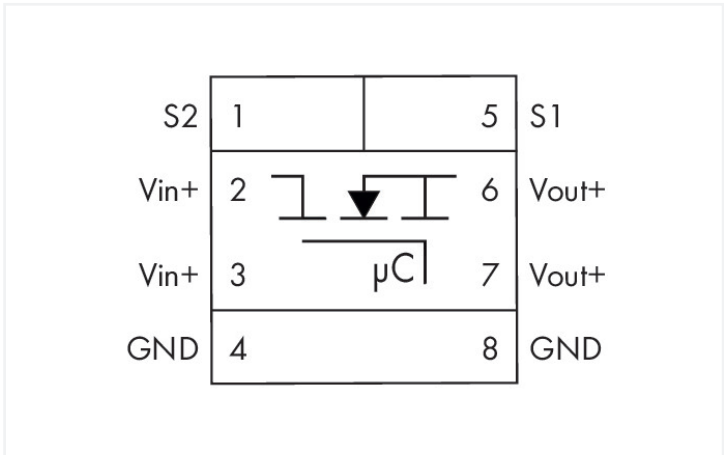
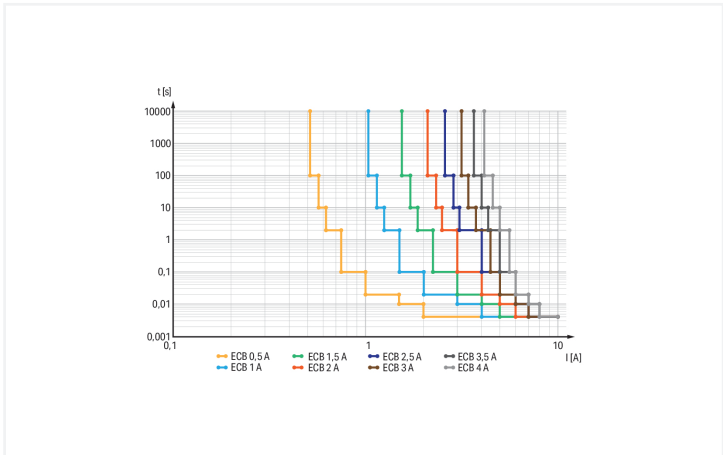
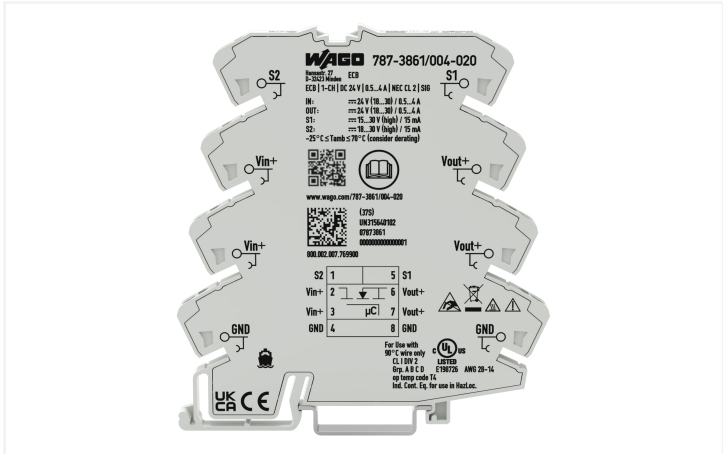
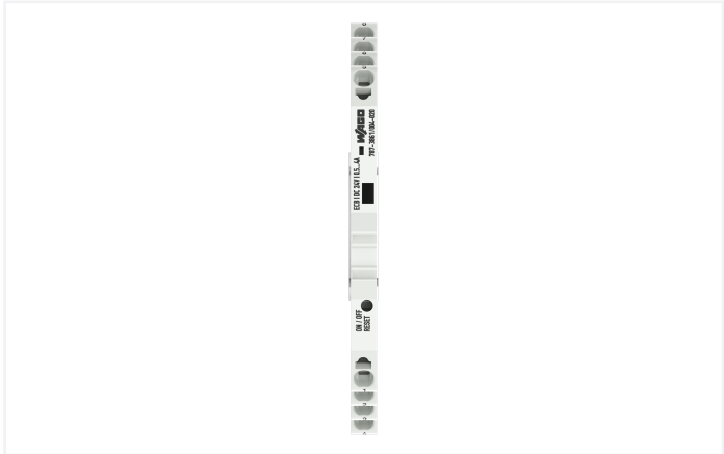






- Features:**
- Space-saving ECB with one channel
 - Reliably and safely trips in the event of an overload and short circuit on the secondary side
 - Switch-on capacity > 50,000 µF
 - Enables the use of an economical, standard power supply
 - Minimizes wiring via two voltage outputs and maximizes commoning 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	$\leq 40\text{ mV}$ (0.5 A); $\leq 80\text{ mV}$ (1 A); $\leq 120\text{ mV}$ (1.5 A); $\leq 160\text{ mV}$ (2 A); $\leq 200\text{ mV}$ (2.5 A); $\leq 240\text{ mV}$ (3 A); $\leq 280\text{ mV}$ (3.5 A); $\leq 320\text{ mV}$ (4 A)
		Nominal output current $I_{o\,nom}$	1 x 0.5 / 1 / 1.5 / 2 / 2.5 / 3 / 3.5 / 4 A (adjustable)
		Default Setting	DC 0.5 A; switched off
		Trip time	10 ms ... 90 s (load-dependent)
		Switch-on capacity	
		Switch-on behavior	Time-delayed channel switching (load-dependent, min. 0 ms / max. 500 ms)
		Current limitation	No
		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_i	$\leq 0.4\text{ W}$ (no load)
Efficiency (typ.)	98 %

Circuit Protection	
Internal fuse	T 8 A

Safety and protection			
Isolation voltage (connectors – housing)	1.5 kVDC	MTBF	807,840 h
Protection class	III		
Protection type	IP20; per EN 60529		
Reverse voltage protection	No		
Transient suppression (primary)	Suppressor diode (33 V)		
Parallel operation of single channels	Not permitted		
Series operation	No		



Insulation coordination (UL)	
Overvoltage category	II
Pollution degree	2

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 / 1.5 A); 22 ... 14 AWG (2 A / 2.5 A); 20 ... 14 AWG (3 A / 3.5 A / 4 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	0.57 MJ
Weight	55.7 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	85362010900

Product Classification	
UNSPSC	39121634
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)	182a37ec-835c-4398-8a34-26201cdd647d
SCIP notification number (Belgium)	7be3cd1c-81db-4697-a0e7-4510af4b0fd3
SCIP notification number (Bulgaria)	ace2344b-cece-40e9-838e-5420ff7f06d3
SCIP notification number (Czech Republic)	eb7d500a-09ae-4c68-b0e6-cf5de11bb5a3
SCIP notification number (Denmark)	2fe76880-4391-4e7f-b43f-312ea576f7ac
SCIP notification number (Finland)	5412f2c7-19e9-475b-820c-724a74597644
SCIP notification number (France)	1b5214de-93ad-4cba-819d-9eeab6e2f665
SCIP notification number (Germany)	eaba3ebe-87e7-4c03-b934-cf6d6de9d5ad
SCIP notification number (Hungary)	b81f3d60-9a87-43f6-9087-58886bf6fc11
SCIP notification number (Italy)	80f1784f-8ca8-4cda-914f-12cbdee804ee
SCIP notification number (Netherlands)	d630cf8b-2fe9-47a8-80dd-96dd379b2c2d
SCIP notification number (Poland)	efb9155f-9a6d-451d-9a46-a31631f587ae
SCIP notification number (Romania)	a2c30a36-126b-4e67-a159-9409a10010f4
SCIP notification number (Sweden)	585b6e14-60b3-4a80-b3b2-05e4b69c9b39

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									
		<table><tr><th>Approval</th><th>Standard</th><th>Certificate Name</th></tr><tr><td>EU-Declaration of Conformity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr><tr><td>UK-Declaration of Conformity WAGO GmbH & Co. KG</td><td>-</td><td>-</td></tr></table>	Approval	Standard	Certificate Name	EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-	UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-
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 787-3861/004-020



Documentation

Manual
Product Manual Electron- ic circuit breaker
V 1.0.0 25.03.2024
pdf 7578.83 KB



Instruction Leaflet
Electronic Circuit Breaker
V 1.1.1 11.09.2023
pdf 2491.12 KB



CAD/CAE-Data

CAD data
2D/3D Models 787-3861/004-020



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; insulated;
blue



Item No.: 859-410
Jumper; for jumper slot; 10-way; insulated;
light gray



Item No.: 859-410/000-005
Jumper; for jumper slot; 10-way; insulated;
red



Item No.: 859-410/000-029
Jumper; for jumper slot; 10-way; insulated;
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





1.1.1.1 Jumper

 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
 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