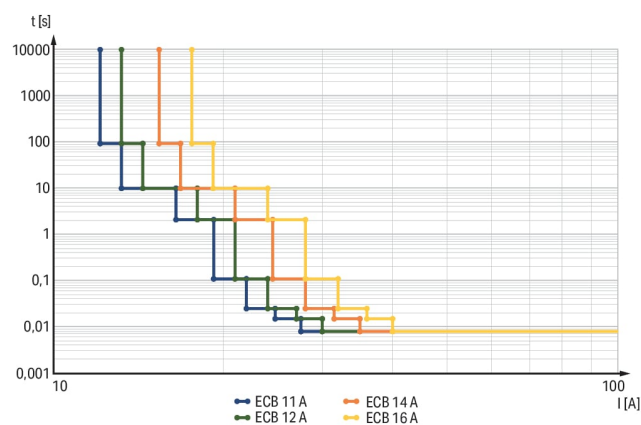
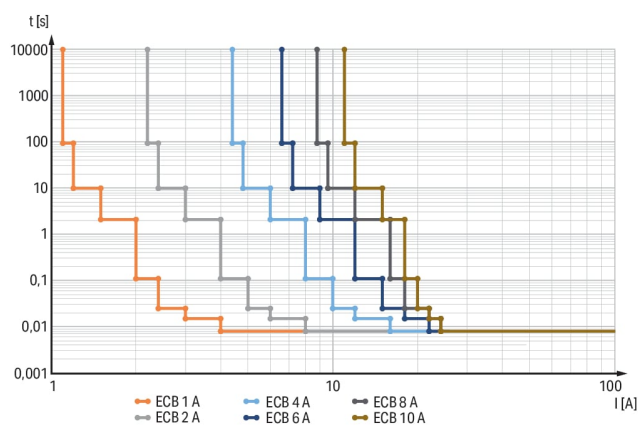
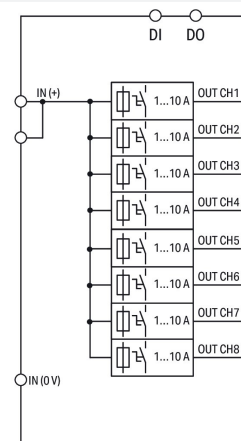
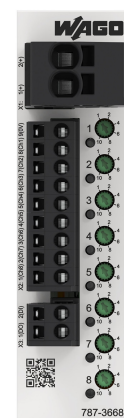


Data Sheet | Item Number: 787-3668

Electronic circuit breaker; 8-channel; 24 VDC input voltage; adjustable 1 ... 10 A; Signal contact

<https://www.wago.com/787-3668>



Features:

- Space-saving ECB with eight channels
- Nominal current: 1 ... 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 50,000 μ F 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 (group signal)
- Remote input resets tripped channels or switches on/off any number of channels



Technical data

Input		Output	
Nominal input voltage $U_{i\text{nom}}$	DC 24 V	Total number of channels (module)	8
Input voltage range	DC 18 ... 30 V	Nominal output voltage $U_{o\text{nom}}$	8 x DC 24 V
		Output voltage range	DC 18 ... 30 V (U_e – voltage drop)
		Voltage drop	≤ 250 mV (Input (+))
		Nominal output current $I_{o\text{nom}}$	8 x 1 / 2 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
		Default Setting	DC 1 A; switched on
		Trip time	16 ms ... 100 s (load-dependent)
		Switch-on capacity	
		Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 10 s)
		Active current limitation	No
		Current limitation	No

Signaling and communication	
Signaling	8 x LED (green/red/orange) 1 x Remote control input (S1) 1 x active signal output (S2)
Operation status indicator	Green LED (channel OK) Red LED (tripped channel)
Remote input	Reactivation of all tripped channels via 15 ... 30 VDC pulse for min. 500 ms

Efficiency/power losses	
Power loss P_l	≤ 1.6 W; ≤ 20 W (8 x 10 A)
Efficiency (typ.)	98 %

Circuit protection	
Internal fuse	T 12 A per channel

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	≤ DC 35 V
Pollution degree	2
Transient suppression (primary)	Suppressor diode (33 V)
Parallel operation of single channels	Permissible
Series operation	No

Connection data	
Connection type 1	Input (+)
Connection technology	Push-in CAGE CLAMP® CAGE CLAMP®
WAGO connector	WAGO 831 Series
Solid conductor	0.5 ... 10 mm² / 20 ... 8 AWG 0.08 ... 2.5 mm² / 28 ... 12 AWG
Fine-stranded conductor	0.5 ... 10 mm² / 20 ... 8 AWG 0.08 ... 2.5 mm² / 28 ... 12 AWG
Strip length	13 ... 15 mm / 0.51 ... 0.59 inches 8 ... 9 mm / 0.31 ... 0.35 inches
Connection type	Input (-); output; signaling
WAGO connector 2	WAGO 231 Series



Physical data	
Width	32 mm / 1.26 inches
Height	115 mm / 4.527 inches
Depth from upper-edge of DIN-rail	157.5 mm / 6.2 inches

Mechanical data	
Mounting type	DIN-35 rail

Material data	
Fire load	4.018 MJ
Weight	250.3 g

Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-25 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	≥ 50 °C (see instruction manual)

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

Commercial data	
ETIM 9.0	EC001440
ETIM 8.0	EC001440
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	IN
Customs tariff number	85363010900

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)	1b096b43-55d6-42ac-9e27-a729b6c0f24a
SCIP notification number (Belgium)	0e72ed8b-ad22-44d0-bc63-2ccf12256009
SCIP notification number (Bulgaria)	129ec3e7-f34c-488e-88a9-23d5952da89d
SCIP notification number (Czech Republic)	c261144b-a59d-4439-b19b-452377eabd1f
SCIP notification number (Denmark)	2298a4f3-869c-43c3-a0cb-9b1424c4be1f
SCIP notification number (Finland)	6bbd5b85-da4c-40a0-bb96-ceb614172ee8
SCIP notification number (France)	7ac1a503-2246-4ca5-b5f5-00c27a0a8304
SCIP notification number (Germany)	505b9f67-7fd3-4b05-9418-2d3f2e18513b



Environmental Product Compliance	
SCIP notification number (Hungary)	5201706a-78d1-44ca-b7ba-4feaddb56194
SCIP notification number (Italy)	82097060-cc58-46c7-98d3-0e3ea1a7dd78
SCIP notification number (Netherlands)	ccc2cd1c-27b1-4300-957f-61c13a6e0243
SCIP notification number (Poland)	ca9ae455-3a43-453c-a133-f7eec5b3449f
SCIP notification number (Romania)	6159b594-e5c2-4f48-9bb8-2ff4e8d4b6e0
SCIP notification number (Sweden)	840aee4b-fc81-4c48-8cbb-dde2a9cab069

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	E175199
Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads	
Environmental Product Compliance	
Compliance Search	
Environmental Product Compliance 787-3668	

Documentation			
Manual		Instruction Leaflet	
Electronic circuit breaker	V 1.0.0 01.02.2024	pdf 5030.38 KB	
		Elektronischer Schutzschalter	V 1.0.0 10.10.2023 pdf 2408.55 KB 

CAD/CAE-Data	
CAD data	
2D/3D Models 787-3668	



1 Compatible Products

1.1 Optional Accessories

1.1.1 Marking

1.1.1.1 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



Item No.: 248-501
Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white



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.: 793-501
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

1.1.1.2 Marking strip



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



Item No.: 210-831
Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white



Item No.: 210-832
Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

1.1.2 Tool

1.1.2.1 Operating tool



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



Item No.: 210-721
Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured



Item No.: 210-769
SCREWDRIVER; green