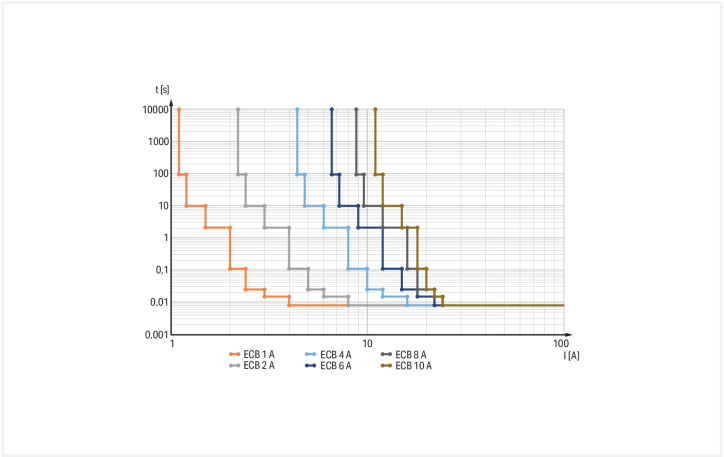


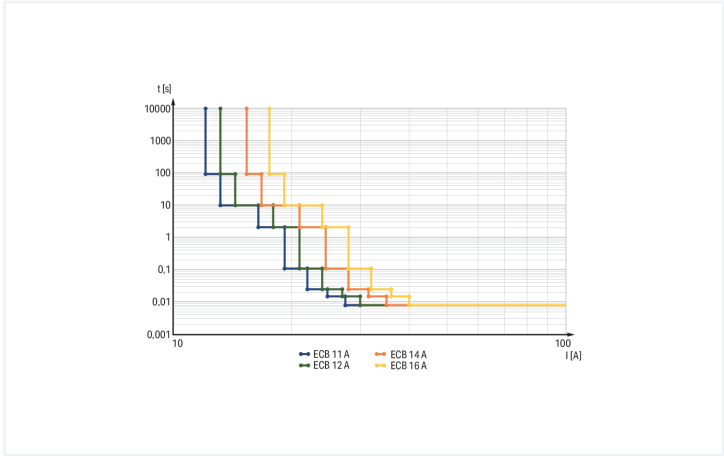
Data Sheet | Item Number: 787-3668

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

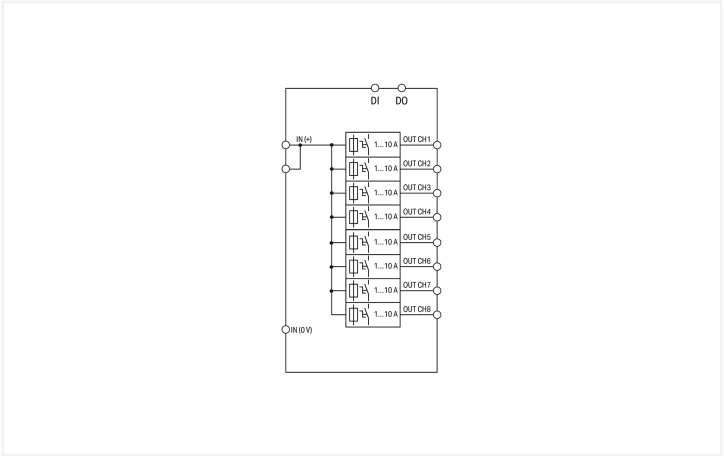
<https://www.wago.com/787-3668>



Tripping characteristic "Normal mode"



Tripping characteristic "Parallel mode"



Features:

- Space-saving ECB with eight channels
- Nominal current: 1 ... 10 A (adjustable for each channel via 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 or switches on/off tripped channels

Technical data

Input	
Nominal input voltage U _{i nom}	24 VDC
Input voltage range	18 ... 30 VDC

Output	
Total number of channels (module)	8
Nominal output voltage U _{o nom}	8 x 24 VDC
Output voltage range	18 ... 30 VDC (U _e - voltage drop)
Voltage drop	≤ 250 mV (Input (+))
Nominal output current I _{o 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
Switch-on threshold	DC 20.3 V

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	$\leq 1.6 \text{ W}; \leq 20 \text{ W (8 x 10 A)}$
Efficiency (typ.)	98 %

Circuit Protection

Internal fuse	T 12 A per channel
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Safety and protection

Isolation voltage (connectors – housing)	0.5 kVDC
Protection class	III
Protection type	IP20; per EN 60529
Reverse voltage protection	No
Resistance to reverse feed	≤ 35 VDC
Pollution degree	2
Transient suppression (primary)	Suppressor diode (33 V)
Parallel operation of single channels	Permissible
Series operation	No

Connection Data

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



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		3.739 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		
PU (SPU)		1 pcs
Packaging type		Box
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)		1b096b43-55d6-42ac-9e27-a729b6c0f24a
SCIP notification number (Belgium)		0e72ed8b-ad22-44d0-bc63-2ccf12256009
SCIP notification number (Bulgaria)		129ec3e7-f34c-488e-88a9-23d5952da89d

Environmental Product Compliance	
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
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		Bid Text	
Electronic circuit breaker	V 1.0.0 01.02.2024	pdf 5030.38 KB	
		787-3668 14.04.2025	docx 36.46 KB 
		787-3668 14.04.2025	x81 7.26 KB 

Instruction Leaflet			
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 Tool

1.1.1.1 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