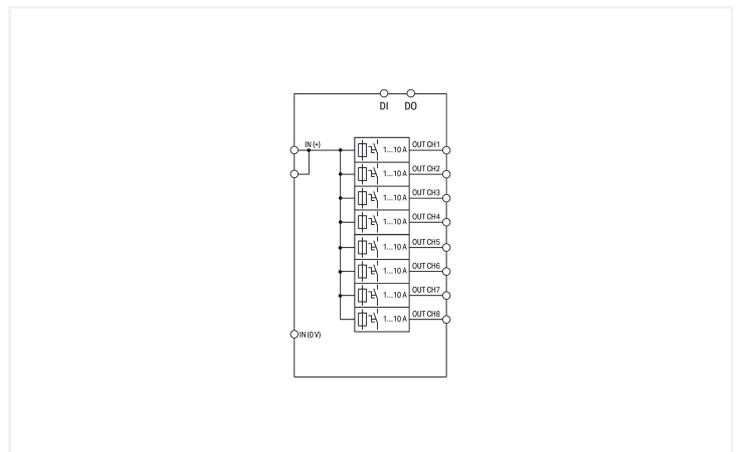
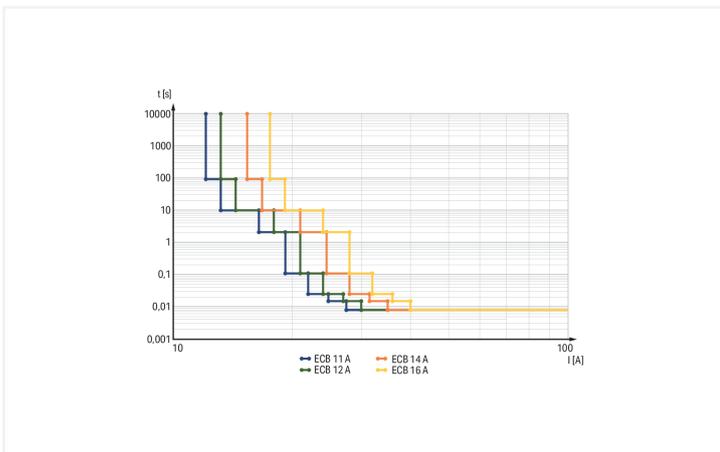
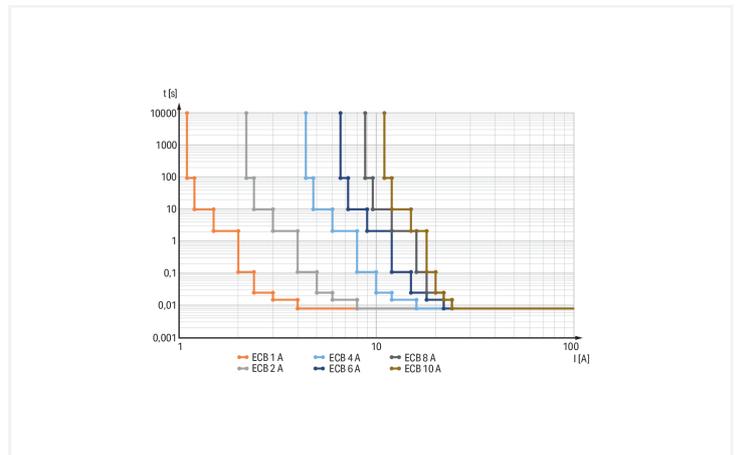


Data Sheet | Item Number: 787-3668

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

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



Tripping characteristic "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 $U_{i\text{nom}}$	24 VDC
Input voltage range	18 ... 30 VDC

Output

Total number of channels (module)	8
Nominal output voltage $U_{o\text{nom}}$	8 x 24 VDC
Output voltage range	18 ... 30 VDC (U_e - voltage drop)
Voltage drop	≤ 250 mV (Input +)
Nominal output current $I_{o\text{nom}}$	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
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_i	≤ 1.6 W; ≤ 20 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 type	Input (+)
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 831 Series
Solid conductor	0.5 ... 10 mm ² / 20 ... 8 AWG
Fine-stranded conductor	0.5 ... 10 mm ² / 20 ... 8 AWG
Strip length	13 ... 15 mm / 0.51 ... 0.59 inches

Connection 2

Connection type	Input (-); output; signaling
Connection technology	CAGE CLAMP®
WAGO connector	WAGO 231 Series
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
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
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Material data

Fire load	3.826 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



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

Declarations of conformity and manufacturer's declarations

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	↓
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Documentation

Manual

Electronic circuit breaker	V 1.0.0 01.02.2024	pdf 5030.38 KB	↓
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Bid Text

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	↓
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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