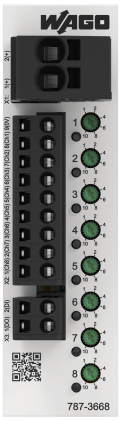
Data Sheet | Item Number: 787-3668

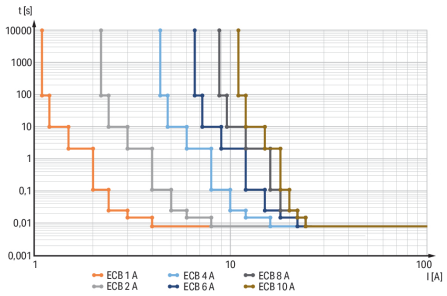
Electronic circuit breaker; 8-channel; 24 VDC input voltage; adjustable 1 … 10 A; Signal contact

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

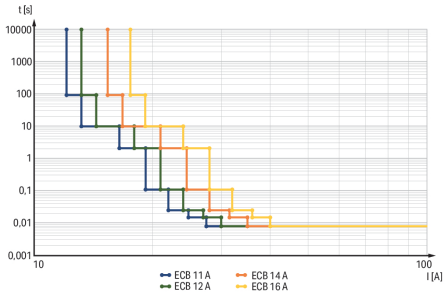


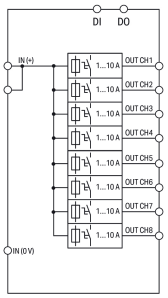






Tripping characteristic “Normal mode”





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 µF 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	≤ 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)	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 mm² / 20 … 8 AWG
Fine-stranded conductor	0.5 … 10 mm² / 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 mm² / 28 … 12 AWG
Fine-stranded conductor	0.08 … 2.5 mm² / 28 … 12 AWG
Strip length	8 … 9 mm / 0.31 … 0.35 inches

Continued on next page

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

Continued on next page

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
UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	-	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	-	-

Approvals for hazardous areas

Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-3668

Continued on next page

Documentation

Manual

Electronic circuit breaker	V 1.0.0 01.02.2024	pdf 5030.38 KB	

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	

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