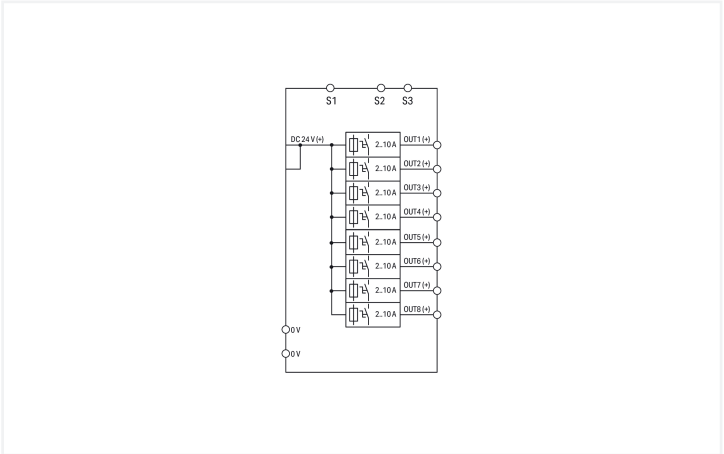


Data Sheet | Item Number: 787-1668

Electronic circuit breaker; 8-channel; 24 VDC input voltage; adjustable 2 ... 10 A; communication capability; 10,00 mm²

<https://www.wago.com/787-1668>



Features:

- Space-saving ECB with eight channels
- Nominal current: 2 ... 10 A (adjustable for each channel via sealable selector switch)
- Switch-on capacity > 50000 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)
- Status message for each channel via pulse sequence
- Remote input resets tripped channels or switches on/off any number of channels via pulse sequence

Technical data

Input		Output	
Nominal input voltage $U_{i\text{nom}}$	24 VDC	Total number of channels (module)	8
Input voltage range	18 ... 30 VDC	Nominal output voltage $U_{o\text{nom}}$	8 x 24 VDC
		Output voltage range	18 ... 30 VDC (U_e - voltage drop)
		Voltage drop	$\leq 200\text{ mV}$ (10 A) (Input (+))
		Nominal output current $I_{o\text{nom}}$	8 x 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via selector switch)
		Default Setting	DC 10 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. 5 s)
		Active current limitation	No
		Current limitation	No

Signaling and Communication		Signaling and Communication	
Signaling	8 x LED (green/red/orange) 1 x Remote control input (S1) 2 x Active signal output (S2; S3)	Remote input	Reactivation of all tripped channels via 15 ... 30 VDC pulse for min. 500 ms Switching on/off any number of channels via pulse sequence
Operation status indicator	Green LED (channel OK) Red LED (tripped channel)		



Efficiency/Power Losses	
Power loss P _I	≤ 1.3 W; ≤ 20 W (8 x 10 A)
Efficiency (typ.)	99 %

Circuit Protection	
Internal fuse	T 15 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	Not permitted
Series operation	No
MTBF	> 500,000 h (per IEC 61709)

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 721 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	42 mm / 1.654 inches
Height	127 mm / 5 inches
Depth from upper-edge of DIN-rail	142.5 mm / 5.61 inches

Mechanical data	
Mounting type	DIN-35 rail

Material data	
Fire load	0.689 MJ
Weight	440 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 508 UL 2367 DNV

Commercial data	
Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	PL
Customs tariff number	85363030888

Product Classification	
UNSPSC	39121601
eCl@ss 10.0	27-37-18-02
eCl@ss 9.0	27-37-18-02
ETIM 9.0	EC001440
ETIM 10.0	EC001440
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-1668

↓

Documentation							
Manual		Bid Text					
Product Manual br/Elec- tronic Circuit Breaker	V 1.1.0	pdf 1320.16 KB					
				787-1668	03.07.2019	xml 7.08 KB	
				787-1668	03.07.2019	docx 20.44 KB	
				ausschreiben.de 787-1668			



Instruction Leaflet			
Elektronische Schutzschalter		pdf 409.78 KB	↓

Application Notes

Application Note e!COCKPIT			
e!COCKPIT Application Note WagoAppFuse (a2019001)	2021-11-08 06.12.2021	pdf 548.17 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 787-1668	↓

CAE data	
EPLAN Data Portal 787-1668	↓
WSCAD Universe 787-1668	↓
ZUKEN Portal 787-1668	↓

Libraries

Library			
Anbindung Stromversorgungen Serie 787	1.0.0 28.08.2017	zip 340.24 KB	↓
Anbindung Stromversorgungen Serie 787	1.3.0 14.05.2014	zip 549.48 KB	↓