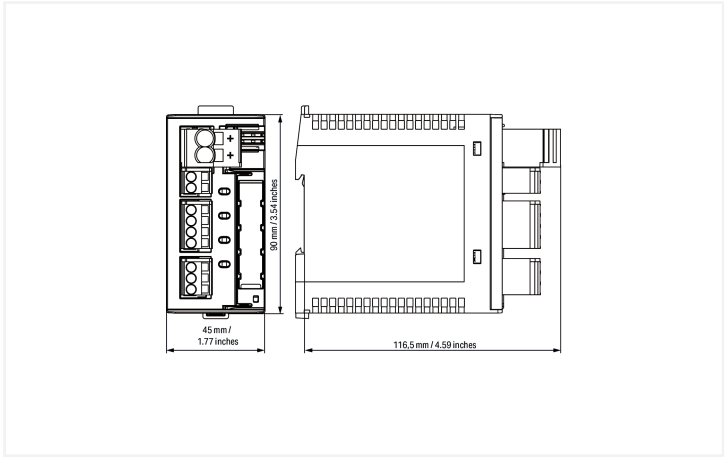
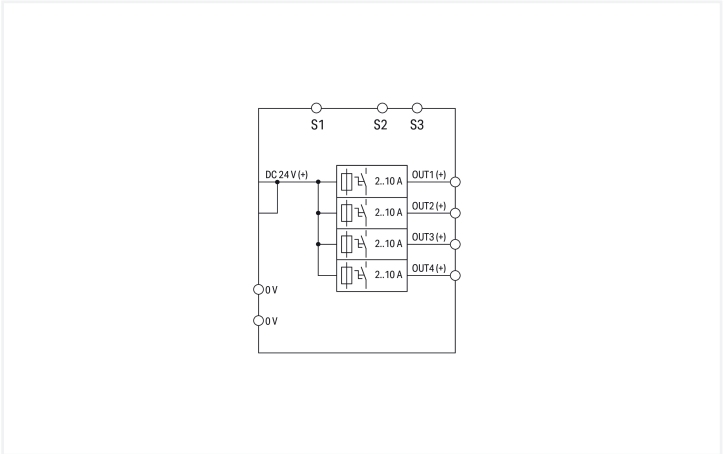


Data Sheet | Item Number: 787-1664

Electronic circuit breaker; 4-channel; 24 VDC input voltage; adjustable 2 ... 10 A; communication capability; 10,00 mm²

<https://www.wago.com/787-1664>



Features:

- Space-saving ECB with four 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	
Nominal input voltage $U_{i\text{nom}}$	24 VDC
Input voltage range	18 ... 30 VDC

Output	
Total number of channels (module)	4
Nominal output voltage $U_{o\text{nom}}$	4 x 24 VDC
Output voltage range	18 ... 30 VDC (U_e - voltage drop)
Voltage drop	≤ 200 mV (10 A) (Input +)
Nominal output current $I_{o\text{nom}}$	4 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)



Output	
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	4 x LED (green/red/orange) 1 x Remote control input (S1) 2 x Active signal output (S2; S3)
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 Switching on/off any number of channels via pulse sequence

Efficiency/Power Losses	
Power loss P _I	≤ 0.84 W; ≤ 10 W (4 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	45 mm / 1.772 inches
Height	90 mm / 3.543 inches
Depth from upper-edge of DIN-rail	115.5 mm / 4.547 inches

Mechanical data	
Mounting type	DIN-35 rail

Material data		
Weight		170 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 787-1664

↓



Documentation				
Manual			Bid Text	
Product Manual Electronic Circuit Breaker	V 1.1.0	pdf 1278.57 KB	787-1664	03.07.2019 xml 6.92 KB
			787-1664	02.07.2019 docx 20.38 KB
			ausschreiben.de 787-1664	

Instruction Leaflet		
Elektronische Schutzschalter	pdf 968.67 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			CAE data	
2D/3D Models 787-1664			EPLAN Data Portal 787-1664	
			WSCAD Universe 787-1664	
			ZUKEN Portal 787-1664	

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		