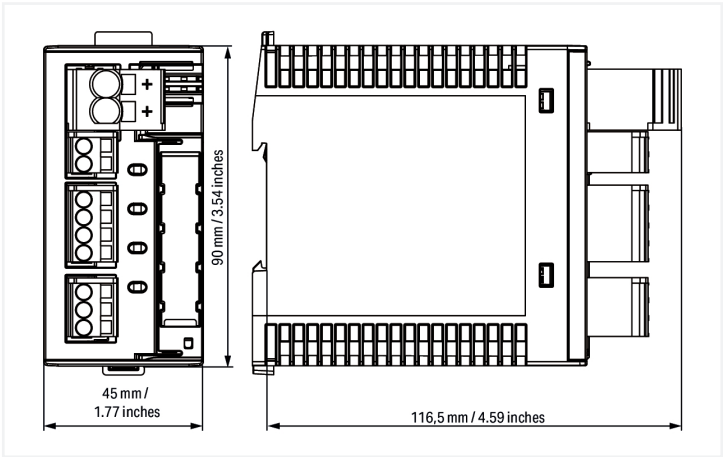
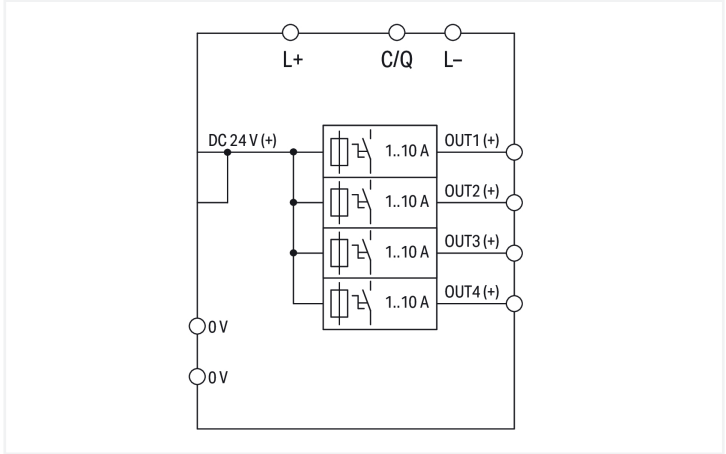




Features:

- Space-saving ECB with four channels
- Nominal current: 1 ... 10 A (adjustable for each channel via sealable selector switch or IO-Link interface)
- Switch-on capacity > 50000 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
- Status message and current measurement of each individual channel via IO-Link interface
- Switch on/off each channel separately via IO-Link interface

Technical data			
Input		Output	
Nominal input voltage $U_{in nom}$	24 VDC	Total number of channels (module)	4
Input voltage range	18 ... 30 VDC	Nominal output voltage $U_{o nom}$	4 x 24 VDC
		Output voltage range	18 ... 30 VDC (U_e – voltage drop)
		Voltage drop	≤ 200 mV (10 A) (Input +)
		Nominal output current $I_{o nom}$	4 x 1 / 2 / 3 / 4 / 6 / 8 / 10 A (adjustable for each channel via IO-Link interface; 1, 2, 4, 6, 10 A adjustable for each channel via selector switch)
		Default Setting	DC 10 A; switched off
		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)



Output	
Active current limitation	No
Current limitation	No

Signaling and communication	
Signaling	4 x LED (green/red/orange) 1 x IO-Link interface
Operation status indicator	Green LED (channel OK) Red LED (tripped channel)
Remote input	Switching on/off any number of channels via IO-Link interface

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 1	Input (+)	Connection type	Input (-); output; signaling
Connection technology	Push-in CAGE CLAMP®	Connection technology	CAGE CLAMP®
WAGO connector	WAGO 831 Series	WAGO connector 2	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		
Fire load		0.651 MJ
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		
eCl@ss 10.0		27-37-18-02
eCl@ss 9.0		27-37-18-02
ETIM 9.0		EC001440
ETIM 8.0		EC001440
PU (SPU)		1 pcs
Packaging type		Box
Country of origin		DE
Customs tariff number		85363010900

Environmental Product Compliance		
RoHS Compliance Status		Compliant, No Exemption

Approvals / Certificates

General approvals			Declarations of conformity and manufacturer's declarations		
  			Approval	Standard	Certificate Name
EAC	TP TC 020/2011	EAC CoC 03081	EU-Declaration of Confor-	-	-
GZO Almaty Standart			mity		
UL	UL 508	E255817	WAGO GmbH & Co. KG		
Underwriters Laboratories Inc.					
UR	UL 2367	E363438			
Underwriters Laboratories Inc.					



Approvals for marine applications



Approval	Standard	Certificate Name
DNV DNV GL SE	-	TAA0000281

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 787-1664/000-080



Documentation

Manual
Product Manual Elec- tronic Circuit Breaker

V 1.1.1
10.10.2019

pdf
5173.86 KB



Additional Information
Electronic Circuit Brea- ker

23.04.2020
19.05.2020

pdf
1996.49 KB



Bid Text
787-1664/000-080

03.07.2019

xml
6.86 KB



787-1664/000-080

03.07.2019

docx
20.25 KB



Application Notes

Application Note e!COCKPIT
e!COCKPIT Application Note WagoAppFuse (a2019001)

2021-11-08
06.12.2021

pdf
548.17 KB



Application note SIEMENS
Application note Elec- tronic fuse 787-166x/0000-0080 with I/O-Link Interface (a2019004)

2019-06-06
06.06.2019

zip
7180.98 KB



Application note Elec-
tronic fuse
787-166x/0000-0080
with I/O-Link Interface
(a2019005)

2019-06-06
06.06.2019

zip
10697.94 KB





CAD/CAE-Data	
CAD data	CAE data
2D/3D Models 787-1664/000-080	EPLAN Data Portal 787-1664/000-080
	ZUKEN Portal 787-1664/000-080

Libraries			
Device Description File			
Device description files 787-1664/000-080	1.1 19.03.2018	zip 162.19 KB	
Device description files 787-1664/000-080	1.4.1 10.09.2019	zip 162.38 KB	

1 Compatible Products
1.1 Optional Accessories
1.1.1 Marking
1.1.1.1 Marker

 Item No.: 2009-145 Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white	 Item No.: 248-501 Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white	 Item No.: 793-5501 WMB marking card; as card; for terminal block width 5 - 17.5 mm; stretchable 5 - 5.2 mm; plain; snap-on type; white	 Item No.: 793-501 WMB marking card; as card; not stretchable; plain; snap-on type; white
 Item No.: 2009-115 WMB-Inline; for Smart Printer; 1500 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white			

1.1.1.2 Marking strip		
		
Item No.: 2009-110 Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white	Item No.: 210-831 Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white	Item No.: 210-832 Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white

1.1.2 Tool		
1.1.2.1 Operating tool		
		
<u>Item No.: 210-720</u> Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured	<u>Item No.: 210-721</u> Operating tool; Blade: 5.5 x 0.8 mm; with a partially insulated shaft; multicoloured	<u>Item No.: 210-769</u> SCREWDRIVER; green

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at: www.wago.com