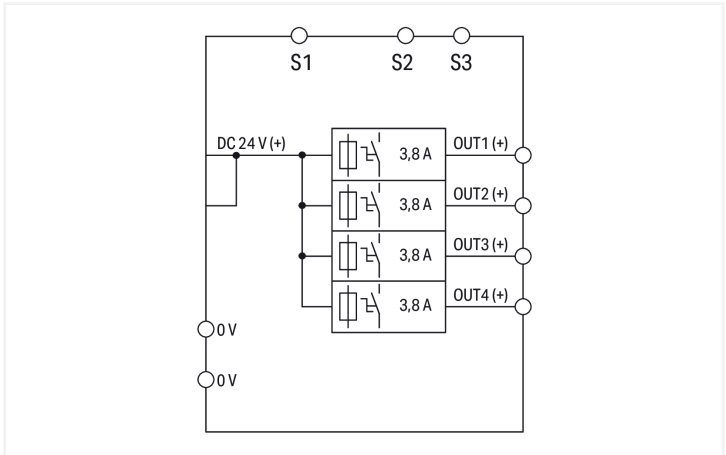
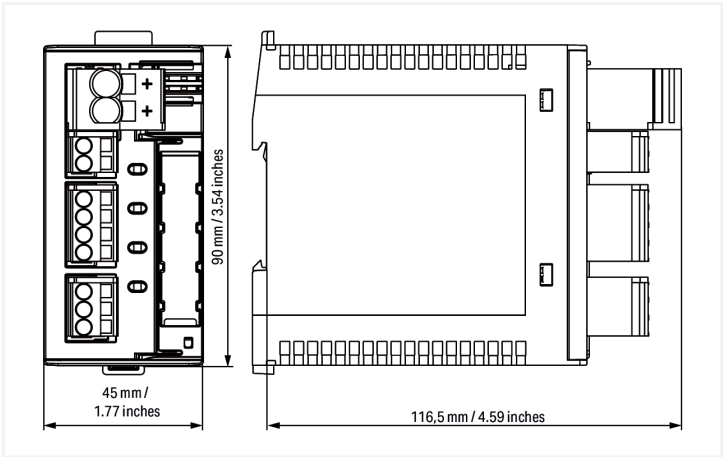




Similar to illustration



Features:

- Space-saving ECB with four channels
- Nominal current is fixed at 3.8 A for each channel
- Each output complies with NEC Class 2
- Active current limitation
- Switch-on capacity > 65000 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)	4
Input voltage range	20 ... 28.8 VDC	Nominal output voltage $U_{o\text{nom}}$	4 x 24 VDC
		Output voltage range	20 ... 28.8 VDC (U_g - voltage drop)
		Voltage drop	≤ 150 mV (3.8 A) (Input (+))
		Nominal output current $I_{o\text{nom}}$	4 x 3.8 A (Fixed setting; NEC Class 2 at 20 ... 24 VDC); 4 x 3.2 A (NEC Class 2 at 28 VDC)
		Default Setting	DC 3.8 A; switched on
		Trip time	16 ms ... 4.7 s (load-dependent)
		Switch-on capacity	



Output	
Switch-on behavior	Time-delayed channel switching (load-dependent, min. 50 ms / max. 5 s)
Active current limitation	Yes
Current limitation	3.8 A (3.2 A at $U_o > 25$ VDC); LPS per NEC Class 2

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	≤ 0.82 W; ≤ 3.1 W (4 x 3.8 A)
Efficiency (typ.)	99 %

Circuit protection	
Internal fuse	No

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	≤ 28.8 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	
Fire load	0.651 MJ
Weight	205 g

Environmental requirements	
Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-25 ... +85 °C
Relative humidity	5 ... 96 % (no condensation permissible)
Derating	No derating

Standards and specifications	
Conformity marking	CE
Standards/specifications	EN 61000-6-2 EN 61000-6-3 UL 508 UL 2367

Commercial data	
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
Customs tariff number	85363010000

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 8.0	EC001440
ECCN	NO US CLASSIFICATION

Environmental Product Compliance	
RoHS Compliance Status	Compliant, No Exemption

Approvals / Certificates

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



Downloads			
Environmental Product Compliance			
Compliance Search			
Environmental Product Compliance			↓
787-1664/004-1000			

Documentation			
Bid Text		Instruction Leaflet	
787-1664/004-1000	03.07.2019	xml	7.38 KB
			↓
787-1664/004-1000	02.07.2019	docx	21.06 KB
			↓
		Elektronische Schutzschalter	pdf
			609.67 KB
			↓

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

CAD/CAE-Data			
CAD data		CAE data	
2D/3D Models		EPLAN Data Portal	
787-1664/004-1000		787-1664/004-1000	↓
		WSCAD Universe	
		787-1664/004-1000	↓
		ZUKEN Portal	
		787-1664/004-1000	↓

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



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