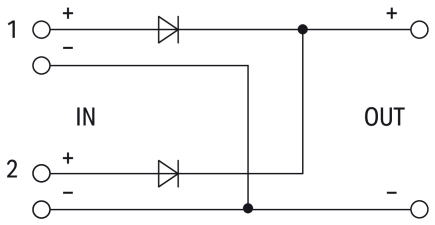
Data Sheet | Item Number: 787-885

Redundancy Module; 2 x 24 VDC input voltage; 2 x 20 A input current; 24 VDC output voltage; 40 A output current; communication capability; 10,00 mm²

https://www.wago.com/787-885





Features:

- Redundancy module with two inputs decouples two power supplies
- For redundant and fail-safe power supply
- With LED and potential-free contact for input voltage monitoring on site and remotely

Technical data

Input

Nominal input voltage $U_{i\,nom}$	2 x 24 VDC
Input voltage range	2 x 18 … 30 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 20 A (per path); ≤ 40 A (in total)

Output

Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	18 … 30 VDC (U_e - voltage drop)
Voltage drop	≤ 0.6 V (Input/output)
Nominal output current $I_{o\,nom}$	20 A (redundancy operation); 40 A (parallel operation)
Nominal output power	960 W
Output power (max.)	≤ 1200 W

Signaling and Communication

Signaling	1 x LED OUT (green) 1 x IN1 LED (yellow) 1 x IN2 LED (yellow) 1 x Isolated relay contact (max. 30 VDC; 1 A)
Operation status indicator	Green LED (U_o) 2 x yellow LED (U_i)

Efficiency/Power Losses

Power loss P_l	≤ 1.5 W; ≤ 14 W (24 VDC; 20 A); ≤ 26 W (48 VDC; 40 A)
Efficiency (typ.)	97 %

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	Yes
Resistance to reverse feed	≤ 33 VDC
Pollution degree	2
Parallel operation	Yes
Series operation	Yes
MTBF	> 500,000 h (per IEC 61709)

Connection Data

Connection 1

Connection type	Input/output
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	Relay
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

Physical data

Width	40 mm / 1.575 inches
Height	181 mm / 7.126 inches
Depth from upper-edge of DIN-rail	163 mm / 6.417 inches
Note (dimensions)	Height with connector

Mechanical data

Mounting type	DIN-35 rail

Material data

Weight	972 g

Environmental requirements

Ambient temperature (operation)	-10 … +60 °C
Ambient temperature (storage)	-25 … +85 °C
Relative humidity	5 … 96 % (no condensation permissible)

Standards and Specifications

Conformity marking	CE
Standards/specifications	EN 60950 UL 60950 UL 508 EN 61000-6-2 EN 61000-6-3

Continued on next page

Commercial data

Product Group	6 (INTERFACE ELECTRONIC)
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	DE
GTIN	4045454909802
Customs tariff number	85044095900

Product Classification

UNSPSC	39121004
eCl@ss 10.0	27-04-07-01
eCl@ss 9.0	27-04-07-01
ETIM 9.0	EC002540
ETIM 10.0	EC002540
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03081
UL Underwriters Laboratories Inc.	UL 508	E255817
UR Underwriters Laboratories Inc.	UL 60950-1	E255815

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Downloads

Environmental Product Compliance

Compliance Search

Environmental Product Compliance 787-885

Continued on next page

Documentation

Bid Text

787-885	15.07.2019	xml 5.98 KB	
787-885	15.07.2019	docx 21.98 KB	

Instruction Leaflet

Redundanzmodul	pdf 272.24 KB	

CAD/CAE-Data

CAD data

2D/3D Models 787-885

CAE data

EPLAN Data Portal
787-885

WSCAD Universe
787-885

ZUKEN Portal 787-885

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

Continued on next page

1.1.2 Mounting adapter

1.1.2.1 DIN-rail adapter



Item No.: 787-897
Carrier rail adapter made of zinc die-cast; for mounting 787-8xx devices to a DIN 35 rail; gray



Item No.: 787-896
Carrier rail adapter; for mounting 787-8xx devices to a DIN 35 rail; gray

1.1.2.2 Wall-mount adapter



Item No.: 787-895
Mounting carrier; for screw fixing of 787-8xx devices on mounting plate or wall without DIN 35 rail; gray

1.1.3 Tool

1.1.3.1 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