

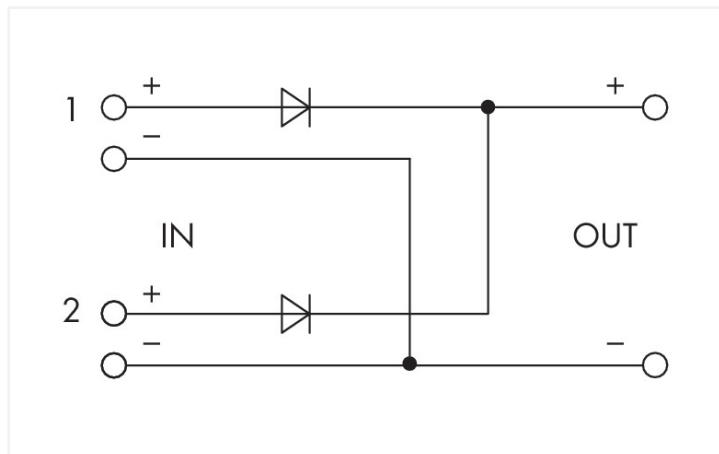
Data Sheet | Item Number: 787-785/000-040

Redundancy Module; 2 x 9 ... 54 VDC input voltage; 2 x 40 A input current; 9–54 VDC output voltage; 76 A output current

<https://www.wago.com/787-785/000-040>



Similar to illustration



Features:

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

Technical data

Input		Output	
Nominal input voltage $U_{i, nom}$	2 x DC 24 V	Nominal output voltage $U_{o, nom}$	DC 24 V
Input voltage range	2 x DC 9 ... 54 V	Output voltage range	DC 9 ... 54 V (U_e - voltage drop)
Nominal mains frequency range	0 Hz	Voltage drop	≤ 500 mV (Input/output)
Input current I_i	≤ 40 A (per path); ≤ 76 A (in total)	Nominal output current $I_{o, nom}$	40 A (redundancy operation); 65 A (parallel operation [UL]); 76 A (parallel operation)
		Nominal output power	1824 W
		Output power (max.)	≤ 4104 W

Signaling and communication

Signaling	1 x IN1 LED (green) 1 x IN2 LED (green) 1 x OUT LED (green)
Operation status indicator	2 x Green LED ($U_i > 7.5$ VDC) 1 x Green LED ($U_o > 7.5$ VDC)

Efficiency/power losses

Power loss P_i	≤ 38 W (nominal load)
Efficiency (typ.)	97 %

Safety and protection

Isolation voltage (connectors – housing)	DC 0.5 kV
Protection class	III
Protection type	IP20; per EN 60529
Resistance to reverse feed	\leq DC 60 V
Pollution degree	2
Oversvoltage protection; secondary	No
Short-circuit-protected	No
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	No
MTBF	> 10 million h (per IEC 61709)

Connection data

Connection type 1	Input/output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2716 Series
Solid conductor	1.5 ... 16 mm ² / 16 ... 6 AWG
Fine-stranded conductor	1.5 ... 16 mm ² / 16 ... 6 AWG
Strip length	12 ... 13 mm / 0.47 ... 0.51 inches

Physical data

Width	83 mm / 3.268 inches
Height	130 mm / 5.118 inches
Depth from upper-edge of DIN-rail	153 mm / 6.024 inches

Mechanical data

Mounting type	DIN-35 rail
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Material data

Fire load	0 MJ
Weight	960 g

Environmental requirements

Ambient temperature (operation)	-25 ... +70 °C
Ambient temperature (storage)	-40 ... +85 °C
Relative humidity	≤ 95% (no condensation permissible)
Derating	-2.66 %/K (55 °C < T _u ≤ 70 °C)
Resistance to shock and vibration	Shock: 15g (per EN 60068-2-27)

Standards and specifications

Conformity marking	CE
Standards/specifications	UL 508 ATEX IEC Ex ANSI/ISA 12.12.01 (Class I Div. 2)

Commercial data

ETIM 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143889704
Customs tariff number	85044083900

Environmental Product Compliance

RoHS Compliance Status	Compliant, No Exemption
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Approvals / Certificates

General approvals **Declarations of conformity and manufacturer's declarations**



Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc.	UL 508	E255817
UL Underwriters Laboratories Inc.	ANSI/ISA 12.12.01	E484199

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

Approvals for hazardous areas



Approval	Standard	Certificate Name
ATEX DEKRA EXAM GmbH	EN 60079-0	BVS 17 ATEX E 010 X (II 3 G Ex ec IIC T4 Gc)
CCC CNEX	CNCA-C23-01	2020312303000474 (Ex ec IIC T4 Gc)
EAC Brjansker Zertifizierungsstelle	TP TC 012/2011	EAC RU C-DE.AM02. B.00132/19 (2Ex e IIC T4 Gc X)
IECEX DEKRA EXAM GmbH	IEC 60079-0	IECEX_BVS_17.0003X_Is-sue_02 (Ex ec IIC T4 Gc)
UKEx WAGO GmbH	EN 60079-0	WAGO22UKEX006X

Downloads

Environmental Product Compliance

Compliance Search	
Environmental Product Compliance 787-785/000-040	↓

Documentation

Bid Text			
787-785/000-040	23.08.2019	xml 6.16 KB	↓
787-785/000-040	23.08.2019	docx 22.20 KB	↓

Instruction Leaflet			
CCC Ex (Additional information)	26.04.2023	pdf 134.71 KB	↓
Diode Redundancy Module	V 1.2.0 29.09.2021	pdf 283.98 KB	↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

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Item No.: 216-201

Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white



Item No.: 216-202

Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray



Item No.: 216-203

Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red



Item No.: 216-204

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black



Item No.: 216-224

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black



Item No.: 216-244

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



Item No.: 216-264

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



Item No.: 216-284

Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black



Item No.: 216-289

Ferrule; Sleeve for 10 mm² / AWG 8; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red



Item No.: 216-209

Ferrule; Sleeve for 10 mm² / AWG 8; insulated; electro-tin plated; red



Item No.: 216-205

Ferrule; Sleeve for 2.08 mm² / AWG 14; insulated; electro-tin plated; yellow



Item No.: 216-286

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; blue



Item No.: 216-246

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



Item No.: 216-266

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



Item No.: 216-286

Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue



Item No.: 216-267

Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



Item No.: 216-287

Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray



Item No.: 216-207

Ferrule; Sleeve for 4 mm² / AWG 12; insulated; electro-tin plated; gray



Item No.: 216-208

Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow



Item No.: 216-288

Ferrule; Sleeve for 6 mm² / AWG 10; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; yellow