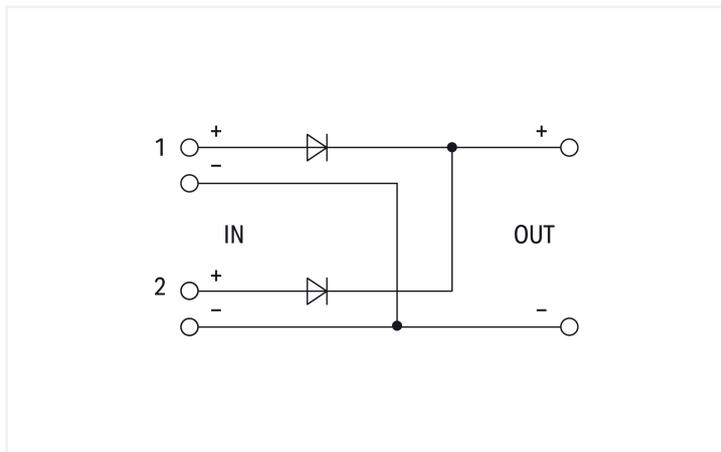


# Data Sheet | Item Number: 787-785/000-040

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 $U_{i\text{nom}}$	2 x 24 VDC	Nominal output voltage $U_{o\text{nom}}$	24 VDC
Input voltage range	2 x 9 ... 54 VDC	Output voltage range	9 ... 54 VDC ( $U_e$ – 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 $I_{o\text{nom}}$	40 A (redundancy operation); 76 A (parallel operation); 65 A (parallel operation [UL])
		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 LED OUT (green)
Operation status indicator	2 x green LED ( $U_{Re} > 7.5$ 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)	0.5 kVDC
Protection class	III
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ 60 VDC
Pollution degree	2
Overvoltage 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 1

Connection type	Input/output
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2716 Series
Solid conductor	1.5 ... 16 mm <sup>2</sup> / 16 ... 6 AWG
Fine-stranded conductor	1.5 ... 16 mm <sup>2</sup> / 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 <sub>u</sub> ≤ 70 °C)
Climatic category	3K3 (per EN 60721; except for low air pressure)
Resistance to shock and vibration	Shock: 15g (per EN 60068-2-27)

**Standards and Specifications**

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

**Commercial data**

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

**Product Classification**

UNSPSC	39121004
ETIM 9.0	EC002540
ETIM 10.0	EC002540
ECCN	NO US CLASSIFICATION

**Environmental Product Compliance**

RoHS Compliance Status	Compliant, No Exemption
SCIP notification number (Austria)	fe1eaea2-99d2-4251-ab45-d53886f9043f
SCIP notification number (Belgium)	19e1e81c-3323-4a8b-9859-92c7505e8d45
SCIP notification number (Bulgaria)	88981860-454c-4588-99a1-53c602d5ef1d
SCIP notification number (Czech Republic)	9a496231-e5de-4f0a-ba43-bfcaded5776a
SCIP notification number (Denmark)	889f22ec-3099-44ad-b96e-f719717117c2
SCIP notification number (Finland)	9dde97d0-c2d4-4949-8ba7-440b76b80e46
SCIP notification number (France)	ee866bac-6883-4f86-a154-d988a6c86640
SCIP notification number (Germany)	b3acf0ec-ccc9-41dc-a090-ea4c2e057e5a
SCIP notification number (Hungary)	08a502e7-c29a-4e79-af58-68f095445fe0
SCIP notification number (Italy)	82f0edc0-2409-42f3-bb30-45b937a48774
SCIP notification number (Netherlands)	15927803-32c5-4660-9a40-827b0ceb1bc3
SCIP notification number (Poland)	c2afc011-25b6-45ef-ac81-4ffc05bf047
SCIP notification number (Romania)	d0806f67-dcf4-4c44-9884-915add268695
SCIP notification number (Sweden)	e4df01b9-cb54-401d-b813-b0f3473e3076

**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.	-	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



DEKRA8505



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)
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	↓
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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)	V 1.1.0 02.08.2023	pdf 134.67 KB	↓
Diode Redundancy Module	V 1.2.0 29.09.2021	pdf 283.98 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 787-785/000-040	↓