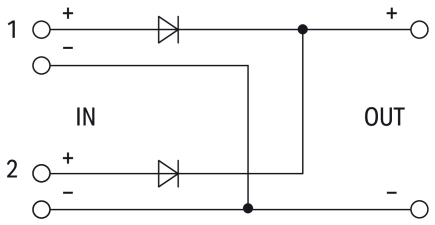
Data Sheet | Item Number: 787-785/000-040

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

Nominal input voltage $U_{i\,nom}$	2 x 24 VDC
Input voltage range	2 x 9 … 54 VDC
Nominal mains frequency range	0 Hz
Input current I_i	≤ 40 A (per path); ≤ 76 A (in total)

Output

Nominal output voltage $U_{o\,nom}$	24 VDC
Output voltage range	9 … 54 VDC (U_e - voltage drop)
Voltage drop	≤ 500 mV (Input/output)
Nominal output current $I_{o\,nom}$	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_l	≤ 38 W (nominal load)
Efficiency (typ.)	97 %

Continued on next page

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 mm² / 16 … 6 AWG
Fine-stranded conductor	1.5 … 16 mm² / 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

Material data

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_{amb} ≤ 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)

Continued on next page

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,With Exemption
RoHS Exemption	6(a)-I 6(b)-II 6(c) 7(a) 7(c)-I 8(b)
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-ac81-4ffcf05bf047
SCIP notification number (Romania)	d0806f67-dcf4-4c44-9884-915add268695
SCIP notification number (Sweden)	e4df01b9-cb54-401d-b813-b0f3473e3076

Approvals / Certificates

General approvals

Approval	Standard	Certificate Name
UL Underwriters Laboratories Inc.	UL 508	E255817
UL Underwriters Laboratories Inc.	-	E484199

Declarations of conformity and manufacturer's declarations

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

Continued on next page

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)
IECEx DEKRA EXAM GmbH	IEC 60079-0	IECEx_BVS_17.0003X_Issue_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)	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