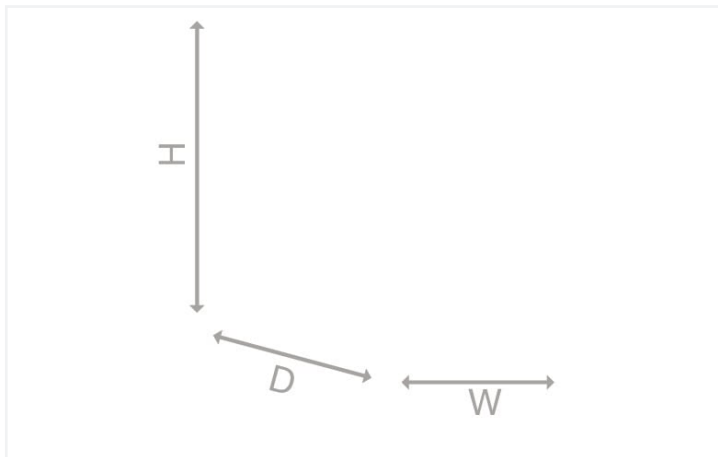
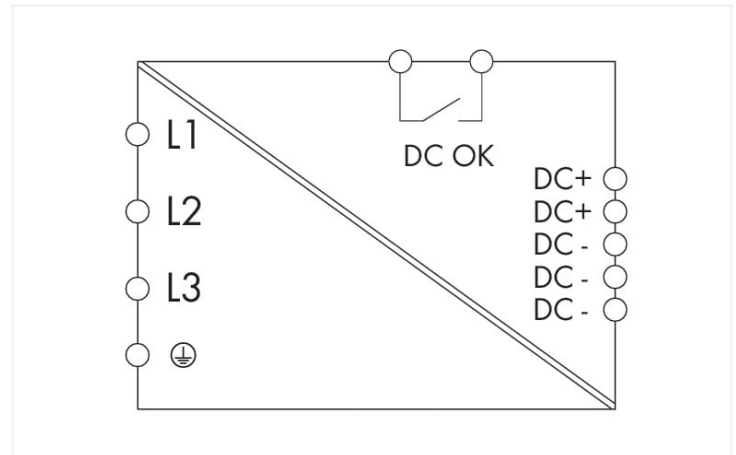


Data Sheet | Item Number: 787-2744

Power supply; Eco; 3-phase; 24 VDC output voltage; 40 A output current; DC OK contact

<https://www.wago.com/787-2744>



Features:

- Economical power supply for standard applications
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Fast and tool-free termination via lever-actuated terminals with push-in connection technology
- DC OK signal output
- Parallel operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204-1

Technical data

Input		Output	
Phases	2 / 3	Nominal output voltage $U_{o, nom}$	DC 24 V (SELV)
Nominal input voltage $U_{i, nom}$	(2 / 3) x AC 400 ... 480 V	Output voltage range	DC 22 ... 28 V (adjustable)
Input voltage range	(2 / 3) x AC 325 ... 575 V; DC 560 ... 700 V	Default setting	DC 24 V
Nominal mains frequency range	47 ... 63 Hz; 0 Hz	Nominal output current $I_{o, nom}$	40 A (24 VDC)
Input current I_i	$\leq 3 \times 2.5$ A (400 VAC)	Nominal output power	960 W
Discharge current	≤ 3.5 mA	Deviation	≤ 1 %
Inrush current	≤ 30 A (400 VAC)	Residual ripple	≤ 150 mV (Peak-to-peak)
Power factor	≥ 0.7 (400 VAC)	Overload behavior	Constant power (in overload range: 1.05 ... 1.4 x $I_{o, nom}$); Shutdown and automatic restart in the event of a short circuit
Power factor correction (PFC)	passive		
Mains failure hold-up time	≥ 10 ms (3 x 400 VAC)		

Signaling and Communication

Signaling	1 x LED DC OK (green) 1 x Overload LED (red) 1 x DC OK signal output (PhotoMOS as make contact; can be loaded with max. 31.2 V / 100 mA)
Operation status indicator	Green LED (U _o) Red LED (overload)

Efficiency/power losses

Power loss P _I	≤ 6.2 W (400 VAC; nominal load); ≤ 64.3 W (400 VAC; nominal load)
Efficiency (typ.)	92.3 %

Circuit protection

Internal fuse	3 x T 6.3 A / 500 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x Circuit breaker ≥ 10 A; Tripping characteristic: B or C

Safety and protection

Isolation voltage (pri.-sec.)	DC 4.242 kV
Isolation voltage (pri.-PE)	DC 2.2 kV
Isolation voltage (sec.-PE)	DC 0.7 kV
Isolation voltage (sec.-signal)	DC 0.7 kV
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ DC 30 V
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	2 devices (max.)
MTBF	> 1,300,000 h (per IEC 61709)

Connection data

Connection type 1	Input
Connection technology	Push-in CAGE CLAMP®
WAGO connector	WAGO 2606 Series
Solid conductor	0.5 ... 6 mm ² / 20 ... 10 AWG
Fine-stranded conductor	0.5 ... 6 mm ² / 20 ... 10 AWG
Strip length	11 ... 13 mm / 0.43 ... 0.51 inches
Connection type 2	Output
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 2616 Series
Solid conductor 2	0.75 ... 16 mm ² / 18 ... 4 AWG
Fine-stranded conductor 2	0.75 ... 25 mm ² / 18 ... 4 AWG
Strip length 2	18 ... 20 mm / 0.71 ... 0.79 inches
Connection type 3	Signaling
Connection technology 3	Push-in CAGE CLAMP®
WAGO connector 3	picoMAX® 3.5 (WAGO 2091 Series)
Solid conductor 3	0.2 ... 1.5 mm ² / 24 ... 14 AWG
Fine-stranded conductor 3	0.2 ... 1.5 mm ² / 24 ... 14 AWG
Strip length 3	8 ... 9 mm / 0.31 ... 0.35 inches

Physical data

Width	140 mm / 5.512 inches
Height	130 mm / 5.118 inches
Depth from upper-edge of DIN-rail	170 mm / 6.693 inches

Mechanical Data

Mounting type	DIN-35 rail
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Material Data

Fire load	0.383 MJ
Weight	2630 g

Environmental requirements

Ambient temperature (operation at U_N)	-20 ... +70 °C
Surrounding air temperature (storage)	-40 ... +85 °C
Relative humidity	10 ... 95 % (no condensation permissible)
Derating	-2 %/K (> 45 °C)
Resistance to shock and vibration	Shock: 15g (per EN 60068-2-27) Vibration: 1g (per EN 60068-2-6)

Standards and specifications

Conformity marking	CE; EAC
Standards/specifications	EN 61204-3 EN 62368-1 cURus 60950-1 cURus 62368-1 cULus 508 CSA C22.2

Commercial data

ETIM 8.0	EC002540
ETIM 7.0	EC002540
PU (SPU)	1 pcs
Packaging type	Box
Country of origin	CN
GTIN	4055143588980
Customs tariff number	85044083900

Approvals / Certificates

General approvals



General approvals

UR Underwriters Laboratories Inc.	UL 62368-1	E255815
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Approval	Standard	Certificate Name
EAC ROSTEST-Moskau	TP TC 004/2011,TP TC 020/2011	RU_C-DE.AJA46. B.07009_19 0787_2744
UL Underwriters Laboratories Inc.	UL 508	E255817
UL Underwriters Laboratories Inc.	UL 60950-1	E255815

Downloads

Environmental Product Compliance

Compliance Search			
Environmental Product Compliance 787-2744			↓

Documentation

Bid Text			
787-2744	13.06.2019	xml 7.45 KB	↓
787-2744	13.06.2019	docx 23.25 KB	↓

Instruction Leaflet			
Primär getaktete Stromversorgung ECO	V 1.5.0	pdf 980.89 KB	↓

CAD/CAE-Data

CAD data	
2D/3D Models 787-2744	↓

CAE data	
EPLAN Data Portal 787-2744	↓
ZUKEN Portal 787-2744	↓

1 Compatible Products

1.1 Optional Accessories

1.1.1 Ferrule

1.1.1.1 Ferrule

<p>Item No.: 216-301 Ferrule; Sleeve for 0.25 mm² / AWG 24; insulated; electro-tin plated; yellow</p>	<p>Item No.: 216-302 Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; light turquoise</p>	<p>Item No.: 216-241 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white</p>	<p>Item No.: 216-201 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white</p>
<p>Item No.: 216-221 Ferrule; Sleeve for 0.5 mm² / 20 AWG; insulated; electro-tin plated; white</p>	<p>Item No.: 216-242 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray</p>	<p>Item No.: 216-262 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; gray</p>	<p>Item No.: 216-202 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray</p>
<p>Item No.: 216-222 Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; gray</p>	<p>Item No.: 216-243 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red</p>	<p>Item No.: 216-263 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; red</p>	<p>Item No.: 216-203 Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; red</p>

1.1.1.1 Ferrule



Item No.: 216-223

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.: 216-205

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

Item No.: 216-206

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

1.1.2 Tool

1.1.2.1 Operating tool



Item No.: 210-719

Operating tool; Blade: 2.5 x 0.4 mm; with a partially insulated shaft

Item No.: 210-769

SCREWDRIVER; green