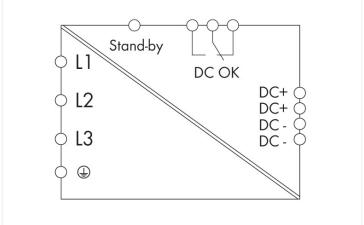
Switched-mode power supply; Pro; 3-phase; 24 VDC output voltage; 20 A output current; TopBoost + PowerBoost; DC OK contact; 2,50 mm²

https://www.wago.com/787-842







Features:

- Switched-mode power supply with PowerBoost and TopBoost
- Switch off the output and minimize power consumption via stand-by input
- Output monitoring via DC OK contact
- Suitable for both parallel and series operation
- · Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Electrically isolated output voltage (SELV) per UL 60950-1; PELV per EN 60204

2/3
(2 / 3) x AC 400 500 V
(2 / 3) x AC 340 550 V; DC 480 780 V
50 60 Hz; 0 Hz
≤ 3 x 1.1 A (340 VAC; 20 ADC)
≤ 1 mA
≤ 30 A
passive
≥ 13 ms (3 x 400 VAC)

Output	
Nominal output voltage U _{o nom}	DC 24 V (SELV)
Output voltage range	DC 22.8 28.8 V (adjustable)
Default setting	DC 24 V
Nominal output current I _{o nom}	20 A (24 VDC)
Nominal output power	480 W
Deviation	≤ 1 %
Residual ripple	≤ 70 mV (peak-to-peak)
Current limitation	1.1 x I _{o nom} (typ.)
Overload behavior	TopBoost/PowerBoost/Constant current mode
PowerBoost	DC 40 A (4 s); DC 30 A (16 s)
TopBoost	DC 80 A (50 ms)

Signaling and communication	
Signaling	1 x LED DC OK (green) 1 x Error LED (red) 1 x Stand-by input 1 x DC OK relay contact (changeover contact)
Operation status indicator	Green LED (DC OK) Red LED (error)

Efficiency/power losses	
Power loss P _I	≤ 8.3 W; ≤ 34.1 W (nominal load)
Efficiency (typ.)	92.9 %

Data Sheet | Item Number: 787-842 https://www.wago.com/787-842



Circuit protection	
Internal fuse	3 x T 2.5 A / 440 VAC
Backup fusing (required)	An external DC fuse is required for the DC input voltage.
Backup fusing (recommended)	3 x Circuit breaker: 6 A, 10 A, 16 A; Trip- ping characteristic: B or C Alternative: motor circuit breaker; Set- point: 2.5 A; Setting range: 2.5 4 A

Safety and protection	
Isolation voltage (prisec.)	DC 4.242 kV
Isolation voltage (priPE)	DC 2.2 kV
Isolation voltage (secPE)	DC 0.7 kV
Protection class	I
Protection type	IP20; per EN 60529
Resistance to reverse feed	≤ DC 35 V
Overvoltage category	II
Pollution degree	2
Transient suppression (primary)	Varistor
Short-circuit-protected	Yes
Open-circuit-proof	Yes
Parallel operation	Yes
Series operation	Yes
MTBF	> 500,000 h (per IEC 61709)

Connection data	
Connection type 1	Input
Connection technology	CAGE CLAMP°
WAGO connector	WAGO 231 Series
Solid conductor	0.08 2.5 mm ² / 28 12 AWG
Fine-stranded conductor	0.08 2.5 mm ² / 28 12 AWG
Strip length	89 mm / 0.31 0.35 inches
Connection type 2	Output
Connection technology 2	Push-in CAGE CLAMP®
WAGO connector 2	WAGO 831 Series
Solid conductor 2	0.5 10 mm² / 20 8 AWG
Fine-stranded conductor 2	0.5 10 mm² / 20 8 AWG
Strip length 2	13 15 mm / 0.51 0.59 inches
Connection type 3	Signaling
Connection technology 3	CAGE CLAMP°
WAGO connector 3	WAGO 733 Series
Solid conductor 3	0.08 0.5 mm² / 28 20 AWG
Fine-stranded conductor 3	0.08 0.5 mm² / 28 20 AWG
Strip length 3	5 6 mm / 0.2 0.24 inches

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Physical data

Width 77 mm / 3.031 inches

Height 171 mm / 6.732 inches

Depth from upper-edge of DIN-rail 179 mm / 7.047 inches

Note (dimensions) Height with connector

Mechanical data

Mounting type DIN-35 rail

Material data

Fire load 0 MJ Weight 1300 g

Environmental requirements

Ambient temperature (operation) -25 ... +70 °C (Device starts at -40 °C (type-tested))

Ambient temperature (storage) -25 ... +85 °C

Relative humidity 5 ... 96 % (no condensation permissible)

Derating -3 %/K (> 50 °C)

Standards and specifications

Conformity marking CE

Standards/specifications EN 61010-1

EN 61010-2-201 EN 61204-3 EN 61558-2-16 UL 60950 UL 508

Commercial data

Product Group 6 (INTERFACE ELECTRONIC) eCl@ss 10.0 27-04-07-01 27-04-07-01 eCl@ss 9.0 ETIM 8.0 EC002540 ETIM 7.0 EC002540 PU (SPU) 1 pcs Packaging type Box Country of origin DE **GTIN** 4045454909932 Customs tariff number 85044083900

Environmental Product Compliance

RoHS Compliance Status Compliant,No Exemption

Approvals / Certificates

https://www.wago.com/787-842



General approvals

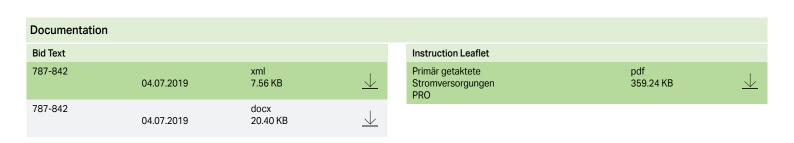


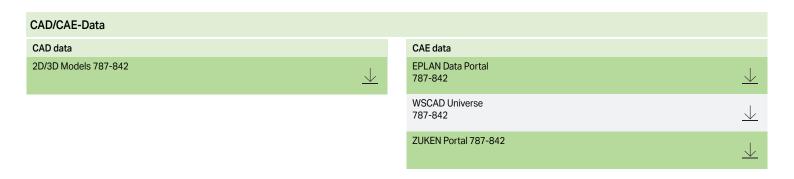
Approval	Standard	Certificate Name
EAC Brjansker Zertifizierungs- stelle	TP TC 004/2011,TP TC 020/2011	EAC RU C-DE.AM02. B.00089_19
UL Underwriters Laboratories Inc.	UL 508	E255817
UL Underwriters Laboratories Inc.	UL 60950-1	E255815

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 787-842





Engineering-Software

https://www.wago.com/787-842



Configuration and Commissioning Software

WAGO Line Length Cal- 1.3.5 culation 09.12.3

09.12.2019

exe 329.50 KB



1 Compatible Products 1.1 Optional Accessories 1.1.1 Ferrule 1.1.1.1 Ferrule Item No.: 216-301 Item No.: 216-321 Item No.: 216-302 Item No.: 216-322 Ferrule; Sleeve for 0.25 mm² / AWG 24; in-Ferrule; Sleeve for 0.34 mm² / 22 AWG; in-Ferrule; Sleeve for 0.25 mm² / AWG 24; in-Ferrule; Sleeve for 0.34 mm² / 22 AWG; insulated; electro-tin plated; yellow sulated; electro-tin plated; yellow sulated; electro-tin plated; light turquoise sulated; electro-tin plated; light turquoise Item No.: 216-241 Item No.: 216-201 Item No.: 216-221 Item No.: 216-242 Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-Ferrule; Sleeve for 0.5 mm² / 20 AWG; in-Ferrule; Sleeve for 0.75 mm² / 18 AWG; insulated; electro-tin plated; electrolytic sulated; electro-tin plated; white sulated; electro-tin plated; white sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; white 46228, Part 4/09.90; gray Item No.: 216-243 Item No.: 216-262 Item No.: 216-202 Item No.: 216-222 Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 0.75 mm² / 18 AWG; in-Ferrule; Sleeve for 1 mm² / AWG 18; insusulated; electro-tin plated; electrolytic sulated; electro-tin plated; gray sulated; electro-tin plated; gray lated; electro-tin plated; electrolytic copcopper; gastight crimped; acc. to DIN per; gastight crimped; acc. to DIN 46228, 46228, Part 4/09.90; gray Part 4/09.90; red Item No.: 216-263 Item No.: 216-203 Item No.: 216-223 Item No.: 216-204 Ferrule; Sleeve for 1 mm² / AWG 18; insu-Ferrule; Sleeve for 1 mm² / AWG 18; insu-Ferrule: Sleeve for 1.5 mm² / AWG 16: in-Ferrule; Sleeve for 1 mm² / AWG 18; insulated; electro-tin plated; electrolytic coplated; electro-tin plated; red lated; electro-tin plated; red sulated; electro-tin plated; black per; gastight crimped; acc. to DIN 46228, Part 4/09.90; red Item No.: 216-224 Item No.: 216-244 Item No.: 216-264 Item No.: 216-284 Ferrule; Sleeve for 1.5 mm² / AWG 16; in-Ferrule; Sleeve for 1.5 mm² / AWG 16; in-Ferrule; Sleeve for 1.5 mm² / AWG 16; in-Ferrule; Sleeve for 1.5 mm² / AWG 16; insulated; electro-tin plated; black sulated; electro-tin plated; electrolytic sulated; electro-tin plated; electrolytic sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; black 46228, Part 4/09.90; black 46228, Part 4/09.90; black Item No.: 216-205 Item No.: 216-206 Item No.: 216-246 Item No.: 216-266 Ferrule; Sleeve for 2.08 mm² / AWG 14; in-Ferrule; Sleeve for 2.5 mm² / AWG 14; in-Ferrule; Sleeve for 2.5 mm² / AWG 14; in-Ferrule; Sleeve for 2.5 mm² / AWG 14; insulated; electro-tin plated; yellow sulated; electro-tin plated; blue sulated; electro-tin plated; electrolytic sulated; electro-tin plated; electrolytic copper; gastight crimped; acc. to DIN copper; gastight crimped; acc. to DIN 46228, Part 4/09.90; blue 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

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1.1.2 Marking

1.1.2.1 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



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; snapon type; white

1.1.2.2 Marking strip

Item No.: 2009-110

Marking strips; for Smart Printer; on reel; not stretchable; plain; snap-on type; white

0.

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

1.1.3 Mounting adapter

1.1.3.1 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

Item No.: 787-896

Carrier rail adapter; for mounting 787-8xx devices to a DIN 35 rail

1.1.3.2 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

1.1.4 Tool

1.1.4.1 Operating tool

Item No.: 210-719

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

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: 5.5×0.8 mm; with a partially insulated shaft; multicoloured

Item No.: 210-769 SCREWDRIVER; green

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at:: $\underline{www.wago.com}$

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