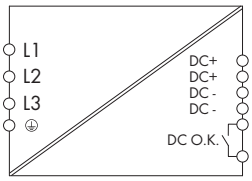
787-1642

Switched-Mode Power Supply, 3-Phase

***EPSITRON*® CLASSIC Power**



- Primary switch mode power supply unit with TopBoost, enabling secondary-side protection via electronic circuit breakers
- Suitable for protection class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- DC OK contact
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC/ 20 A	**787-1642**	1

Technical Data

Input:	
Nominal input voltage $V_{i\,nom}$	3 x (2 x) AC 400 ... 500 VAC
Input voltage range	320 V ... 575 VAC; 450 V ... 800 VDC
Frequency	47 Hz ... 63 Hz; 0 Hz
Input current I_i	3 x 1.21 A (400 VAC);
	3 x 1.03 A (500 VAC)
Inrush current	< 30 A, NTC
Mains failure hold-up time	25 ms (500 VAC);
	15 ms (400 VAC)
Output:	
Nominal output voltage $V_{o\,nom}$	24 VDC (SELV)
Output voltage range	23 V ... 28.5 VDC adjustable
Factory preset	24 VDC
Output current I_o	20 A at 24 VDC
Adjustment accuracy	< 1 %
Residual ripple	15 mV (peak-to-peak) typ.
Current limitation	1.1 x I_o typ.
Overload behavior	Constant current
Operational indication	Green LED (V_o)
Signaling	DC OK contact;
	Make contact (max. 30 V / 1 A)
Efficiency/Power losses:	
Efficiency	92 % typ.
Power loss P_V	5.8 W (no load);
	42.8 W (400 VAC. nominal load)
Max. power loss P_V	47.6 W (500 VAC / 24 VDC, 20 A)
Fuse protection:	
Internal fuse	-
External fuse (required)	3 x circuit breakers 6 A, 10 A, 16 A,
	B or C characteristic; max. 20 A;
	or motor circuit breakers
	An external DC fuse required for DC input
	voltage

Technical Data

Environmental requirements:	
Ambient operating temperature	-25 °C ... +70 °C;
	Device start at -40 °C type-tested
Storage temperature	-25 °C ... +85 °C
Relative humidity	5 % ... 96 % (no condensation permissible)
Derating	-2.5 %/K (> 55 °C)
Safety and protection:	
Test voltage PRI–SEC	4.2 kV DC
Protection class	Prepared for class I equipment
Degree of protection	IP20 (acc. to EN 60529)
Overvoltage protection	Varistor (input side);
	internal protective circuit,
	< 40 VDC (output side in case of an error)
Short circuit protection	yes
No-load proof	yes
Feedback voltage	max. 35 VDC
Parallel operation	yes
Series connection	yes
Connection and mounting type:	
Wire connection	Input/Signaling: WAGO 721 Series
	Output: WAGO 831 Series
Cross sections	Input/Signaling:
	0.08 mm² ... 2.5 mm² / 28 ... 12 AWG
	Output:
	0.5 mm² ... 10 mm² / 20 ... 8 AWG
Strip lengths	Input/Signaling:
	8 ... 9 mm / 0.31 ... 0.35 in
	Output: 13 ... 15 mm / 0.51 ... 0.59 in
Mounting type	DIN-rail-mount (EN 60715)
Dimensions and weight:	
Dimensions (mm) W x H x L	80 x 127 x 180
	Length from upper-edge of DIN-rail
Weight	1500 g
Standards and specifications:	
Standards/Specifications	EN 60950-1, EN 61204-3,
	UL 60950-1, UL 508, GL*
	(* pending)