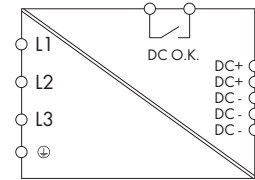


## Switched-Mode Power Supply, 3-Phase

EPSITRON® ECO Power



- Suitable for protection class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Fast and tool-free termination via lever-actuated terminal blocks
- DC O.K. contact
- Parallel operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

Technical Data	
<b>Input:</b>	
Nominal input voltage $V_{i, nom}$	3 x (2 x) 400 V ... 500 VAC
Input voltage range	325 V ... 575 VAC; 460 V ... 800 VDC
Frequency	47 Hz ... 63 Hz
Input current $I_i$	3 x 2.05 A at 400 VAC and 20 ADC
Power factor	≥ 0.6
Discharge current	< 3.5 mA
Inrush current	< 30 A
Mains failure hold-up time	> 17 ms at 3x 400 VAC
<b>Output:</b>	
Nominal output voltage $V_{o, nom}$	24 VDC (SELV)
Output voltage range	22 ... 28 VDC adjustable
Output current $I_o$	20 A at 24 VDC
Factory preset	24 VDC
Adjustment accuracy	1 %
Residual ripple	< 80 mV (peak-to-peak)
Overload behavior	Constant power (in overload range: 1.15 ... 1.4 x $I_o$ ); shutdown and automatic restart in the event of a short circuit
Operational indication	Green LED ( $V_o$ ), Red LED (overload)
Signaling	DC O.K. contact; Make contact (max. 31.2 V / 20 mA)
<b>Efficiency/Power losses:</b>	
Efficiency	90 % typ.
Power loss $P_V$	50 W
Max. power loss $P_V$	55 W
<b>Fuse protection:</b>	
Internal fuse	3 x T 5 A / 250 V
External fuse	3 x circuit breakers 10 A, 16 A, B or C characteristic, or motor circuit breakers
	External DC fuse required for DC input voltage
<b>Environmental Requirements:</b>	
Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Rel. humidity	95% (no condensation permissible)

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC / 20 A	787-742	1
<b>Technical Data</b>		
<b>Environmental Requirements:</b>		
Derating	-2 % / K (> +50 °C; 400 VAC)	
Degree of pollution	2 (acc. to EN 50178)	
Climatic category	3K3 (acc. to EN 60721)	
<b>Safety and protection:</b>		
Test voltage PRI-SEC/PRI-GND/ SEC-GND/SEC-DC OK	3 kV AC / 1.5 kV AC / 0.5 kV AC / 0.5 kV AC	
Protection class	Prepared for class I equipment	
Degree of protection	IP20 (acc. to EN 60529)	
Oversvoltage protection	yes	
Short circuit protection	yes	
No-load proof	yes	
Feedback voltage	30 V	
Parallel operation	yes	
Series connection	yes	
MTBF	> 250000 h	
<b>Connection and type of mounting:</b>		
Wire connection	Input/Output: WAGO 2706 Series Signaling: WAGO 2091 Series	
Cross sections	Input/Output: 0.5 mm <sup>2</sup> ... 6 mm <sup>2</sup> / AWG 20 ... 10 Signaling: 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> / AWG 24 ... 14	
Strip lengths	Input/Output: 11 ... 12 mm / 0.43 ... 0.47 in Signaling: 8 ... 9 mm / 0.31 ... 0.35 in	
Type of mounting	DIN-rail mount (EN 60715)	
<b>Dimensions and weight:</b>		
Dimensions (mm) W x H x L	110 x 130 x 151 Length from upper-edge of DIN 35 rail	
Weight	1930 g	
<b>Standards and approvals:</b>		
Standards/Specifications	EN 60950, EN 61204-3, UL 60950*, UL 508* (* pending)	