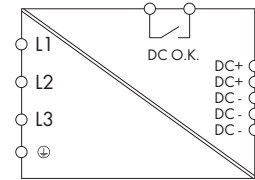


## Switched-Mode Power Supply, 3-Phase

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
- Bounce-free switching signal (DC OK) via optocoupler
- Parallel operation
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950-1

## Technical Data

## Input:

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

## Output:

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)

## Efficiency/Power losses:

Efficiency	90 % typ.
Power loss $P_V$	50 W
Max. power loss $P_V$	55 W

## Fuse protection:

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

## Environmental Requirements:

Ambient operating temperature	-25 °C ... +70 °C
Storage temperature	-40 °C ... +85 °C
Rel. humidity	95% (no condensation permissible)

## Description

Switched-mode power supply,  
24 VDC / 20 A

## Item No.

787-742

Pack.  
Unit

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## Technical Data

## Environmental Requirements:

Derating	-2 % / K (> +50 °C; 400 VAC)
Degree of pollution	2 (acc. to EN 50178)
Climatic category	3K3 (acc. to EN 60721)

## Safety and protection:

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

## Connection and type of mounting:

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)

## Dimensions and weight:

Dimensions (mm) W x H x L	110 x 130 x 151 Length from upper-edge of DIN 35 rail
Weight	1930 g

## Standards and approvals:

Standards/Specifications	EN 60950, EN 61204-3, UL 60950*, UL 508* (* pending)
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