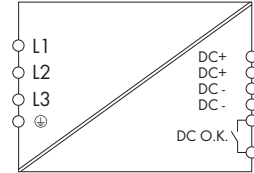


# Switched-Mode Power Supply, 3-Phase

## 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

### 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 0.73 A (400 VAC); 3 x 0.66 A (500 VAC)
Inrush current	< 30 A, NTC
Mains failure hold-up time	50 ms (500 VAC); 21 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 $I_o$	10 A at 24 VDC
Adjustment accuracy	< 1 %
Residual ripple	50 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	90 % typ.
Power loss $P_V$	2.1 W (no load); 27.9 W (400 VAC, nominal load)
Max. power loss $P_V$	28.3 W (500 VAC / 24 VDC, 10 A)

#### Fuse protection:

Internal fuse	-
External fuse	3 x circuit breakers 10 A, 16 A, B or C characteristic; or motor circuit breakers An external DC fuse required for DC input voltage

Description	Item No.	Pack. Unit
Switched-mode power supply, 24 VDC/ 10 A	787-1640	1

### 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, < 41 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/Output/Signaling: WAGO 721 Series
Cross sections	Input/Output/Signaling: 0.08 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> / 28 ... 12 AWG
Strip lengths	Input/Output/Signaling: 8 ... 9 mm / 0.31 ... 0.35 in
Mounting type	DIN-rail-mount (EN 60715)

#### Dimensions and weight:

Dimensions (mm) W x H x L	55 x 127 x 171 Length from upper-edge of DIN-rail
Weight	1000 g

#### Standards and specifications:

Standards/Specifications	EN 60950-1, EN 61204-3, UL 60950-1, UL 508, GL* (* pending)
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