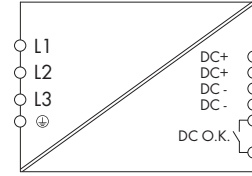


Switched-Mode Power Supply, 3-Phase

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 |
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| 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 | 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 |

| 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 mm ² ... 2.5 mm ² / 28 ... 12 AWG Output: 0.5 mm ² ... 10 mm ² / 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) |