SIEMENS

## Data sheet 6EP3437-7SB00-3AX0

SITOP PSU6200/3AC/24VDC/40A

SITOP PSU6200 24 V/40 A stabilized power supply input: 400 - 500 V AC output: 24 V DC/40 A with diagnostic interface

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| **Input** | |
| type of the power supply network | 3-phase AC or DC |
| supply voltage at AC | |
| ● minimum rated value | 400 V |
| ● maximum rated value | 500 V |
| ● initial value | 323 V |
| ● full-scale value | 576 V |
| input voltage | |
| ● at DC | 450 ... 600 V |
| operating condition of the mains buffering | at Vin = 400 V |
| buffering time for rated value of the output current in the event of power failure minimum | 18 ms |
| operating condition of the mains buffering | at Vin = 400 V |
| line frequency | |
| ● 1 rated value | 50 Hz |
| ● 2 rated value | 60 Hz |
| line frequency | 47 ... 63 Hz |
| input current | |
| ● at rated input voltage 400 V | 1.5 A |
| ● at rated input voltage 500 V | 1.2 A |
| current limitation of inrush current at 25 °C maximum | 10 A |
| fuse protection type | |
| ● in the feeder | three-poled coupled circuit breaker from 4 A characteristic C to 16 A characteristic C or circuit breaker 3RV2011-1EA10 (setting 4 A) or 3RV2711-1ED10 (UL 489) |
| **Output** | |
| voltage curve at output | Controlled, isolated DC voltage |
| number of outputs | 1 |
| output voltage at DC rated value | 24 V |
| output voltage | |
| ● at output 1 at DC rated value | 24 V |
| relative overall tolerance of the voltage | 3 % |
| relative control precision of the output voltage | |
| ● on slow fluctuation of input voltage | 0.2 % |
| ● on slow fluctuation of ohm loading | 0.1 % |
| residual ripple | |
| ● maximum | 80 mV |
| ● typical | 50 mV |
| voltage peak | |
| ● maximum | 80 mV |
| ● typical | 30 mV |
| adjustable output voltage | 24 ... 28 V |
| product function output voltage adjustable | Yes |
| type of output voltage setting | via potentiometer; max. 960 W (1152 W up to 45°C) |
| display version for normal operation | Green LED for 24 V OK |
| type of signal at output | Electronic contact (NO contact, contact rating 30 V DC/0.1 A) for DC O.K. or diagnostic interface |
| behavior of the output voltage when switching on | Overshoot of Vout < 2 % |
| response delay maximum | 0.5 s |
| voltage increase time of the output voltage | |
| ● typical | 100 ms |

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| output current | |
| ● rated value | 40 A |
| ● rated range | 0 ... 40 A; 48 A up to +45°C; +60 ... +70 °C: Derating 3%/K |
| supplied active power typical | 960 W |
| short-term overload current | |
| ● on short-circuiting during the start-up typical | 48 A |
| ● at short-circuit during operation typical | 48 A |
| product feature | |
| ● parallel switching of outputs | can be set with DIP switch |
| ● bridging of equipment | Yes; switchable characteristic |
| number of parallel-switched equipment resources for increasing the power | 2 |
| **Efficiency** | |
| efficiency in percent | 96 % |
| power loss [W] | |
| ● at rated output voltage for rated value of the output current typical | 40 W |
| ● during no-load operation maximum | 4.5 W |
| **Closed-loop control** | |
| relative control precision of the output voltage at load step of resistive load 10/90/10 % typical | 2 % |
| setting time | |
| ● load step 10 to 90% typical | 2 ms |
| ● load step 90 to 10% typical | 10 ms |
| ● maximum | 10 ms |
| **Protection and monitoring** | |
| design of the overvoltage protection | < 32 V |
| ● typical | 48 A |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | Shutdown and periodic restart attempts |
| overcurrent overload capability in normal operation | overload capability 150 % Iout rated up to 5 s/min |
| **Safety** | |
| galvanic isolation between input and output | Yes |
| galvanic isolation | Safety extra low output voltage Vout according to EN 60950-1 |
| operating resource protection class | Class I |
| leakage current | |
| ● maximum | 3.5 mA |
| protection class IP | IP20 |
| **Approvals** | |
| certificate of suitability | |
| ● CE marking | Yes |
| ● UL approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) |
| ● CSA approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) |
| ● cCSAus, Class 1, Division 2 | No |
| ● ATEX | No |
| certificate of suitability | |
| ● IECEx | No |
| ● NEC Class 2 | No |
| ● ULhazloc approval | No |
| ● FM registration | No |
| type of certification CB-certificate | Yes |
| certificate of suitability | |
| ● EAC approval | Yes |
| ● KC approval | No |
| ● C-Tick | No |
| ● Regulatory Compliance Mark (RCM) | No |
| certificate of suitability shipbuilding approval | Yes |
| shipbuilding approval | ABS; in process: DNV |
| Marine classification association | |
| ● American Bureau of Shipping Europe Ltd. (ABS) | Yes |

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| ● French marine classification society (BV) | No |
| ● DNV GL | No |
| ● Lloyds Register of Shipping (LRS) | No |
| ● Nippon Kaiji Kyokai (NK) | No |
| **EMC** | |
| standard | |
| ● for emitted interference | EN 55022 Class B |
| ● for mains harmonics limitation | EN 61000-3-2 |
| ● for interference immunity | EN 61000-6-2 |
| **environmental conditions** | |
| ambient temperature | |
| ● during operation | -30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C |
| ● during transport | -40 ... +85 °C |
| ● during storage | -40 ... +85 °C |
| environmental category according to IEC 60721 | Climate class 3K3, 5 … 95% no condensation |
| **Mechanics** | |
| type of electrical connection | push-in terminals |
| ● at input | L1, L2, L3, PE: push-in for 0.5 ... 10 mm² |
| ● at output | +1, +2, -1, -2, -3: push-in for 0.75 ... 16 mm² |
| ● for auxiliary contacts | 13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm² |
| width of the enclosure | 95 mm |
| height of the enclosure | 135 mm |
| depth of the enclosure | 155 mm |
| required spacing | |
| ● top | 45 mm |
| ● bottom | 45 mm |
| ● left | 0 mm |
| ● right | 0 mm |
| net weight | 2.1 kg |
| product feature of the enclosure housing can be lined up | Yes |
| fastening method | Snaps onto DIN rail EN 60715 35x7.5/15 |
| electrical accessories | Buffer module, redundancy module |
| mechanical accessories | Identification labels SIMATIC ET 200SP 6ES7193-6LF30-0AW0 |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |