



SITOP PSU6200/1AC/24VDC/3.7A/NECCCLASS2

SITOP PSU6200 3.7 A NEC class II Stabilized power supply Input: 120 - 230 V AC, (120 - 240 V DC) Output: 24 V DC/3.7 A

| Input  |   |
|--|---|
| type of the power supply network   | 1-phase AC or DC  |
| supply voltage at AC   |   |
| • minimum rated value  | 120 V   |
| • maximum rated value  | 240 V   |
| • initial value  | 85 V  |
| • full-scale value   | 264 V   |
| supply voltage   |   |
| • at DC  | 120 ... 240 V   |
| input voltage  |   |
| • at DC  | 99 ... 275 V  |
| design of input wide range input   | Yes   |
| overvoltage overload capability  | 300 V AC for 30 s   |
| operating condition of the mains buffering   | at $V_{in} = 240$ V   |
| buffering time for rated value of the output current in the event of power failure minimum | 90 ms   |
| operating condition of the mains buffering   | at $V_{in} = 240$ V   |
| line frequency   |   |
| • 1 rated value  | 50 Hz   |
| • 2 rated value  | 60 Hz   |
| line frequency   | 47 ... 63 Hz  |
| input current  |   |
| • at rated input voltage 120 V   | 1.5 A   |
| • at rated input voltage 240 V   | 0.9 A   |
| current limitation of inrush current at 25 °C maximum                                      | 29 A  |
| fuse protection type   | 3.15 A  |
| • in the feeder  | Circuit breaker 4 A characteristic C or 6 A characteristic B/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   | 0.3 %   |
| residual ripple  |   |
| • maximum  | 30 mV   |
| • typical  | 20 mV   |

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| voltage peak   |   |
| • maximum  | 100 mV  |
| • typical  | 60 mV   |
| adjustable output voltage  | 24 ... 28 V   |
| product function output voltage adjustable   | Yes   |
| type of output voltage setting   | via potentiometer; max. 89 W (106 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.                                 |
| 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  |
| output current   |   |
| • rated value  | 3.7 A   |
| • rated range  | 0 ... 3.7 A; +60 ... +70 °C: Derating 1.5%/K  |
| supplied active power typical  | 89 W  |
| short-term overload current  |   |
| • on short-circuiting during the start-up typical  | 3.7 A   |
| • at short-circuit during operation typical  | 3.7 A   |
| product feature  |   |
| • bridging of equipment  | No  |
| <b>Efficiency</b>  |   |
| efficiency in percent  | 89.3 %  |
| power loss [W]   |   |
| • at rated output voltage for rated value of the output current typical                            | 11 W  |
| • during no-load operation maximum   | 2.2 W   |
| <b>Closed-loop control</b>   |   |
| 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  | 2 ms  |
| • maximum  | 3 ms  |
| <b>Protection and monitoring</b>   |   |
| design of the overvoltage protection   | < 32 V  |
| • typical  | 3.7 A   |
| property of the output short-circuit proof   | Yes   |
| design of short-circuit protection   | Shutdown and periodic restart attempts  |
| <b>Safety</b>  |   |
| 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  |
| <b>Approvals</b>   |   |
| 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  | Yes; acc. to UL 60950-1/UL 1310, File E151273   |
| • ULhazloc approval  | No  |
| • FM registration  | No  |
| type of certification CB-certificate   | Yes   |
| certificate of suitability   |   |

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| <ul style="list-style-type: none"> <li>• EAC approval</li> </ul>                                  | Yes  |
| <ul style="list-style-type: none"> <li>• C-Tick</li> </ul>  | No   |
| <ul style="list-style-type: none"> <li>• Regulatory Compliance Mark (RCM)</li> </ul>              | No   |
| certificate of suitability shipbuilding approval  | Yes  |
| shipbuilding approval   | ABS; in process: DNV   |
| Marine classification association   |  |
| <ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> </ul> | Yes  |
| <ul style="list-style-type: none"> <li>• French marine classification society (BV)</li> </ul>     | No   |
| <ul style="list-style-type: none"> <li>• DNV GL</li> </ul>  | No   |
| <ul style="list-style-type: none"> <li>• Lloyds Register of Shipping (LRS)</li> </ul>             | No   |
| <ul style="list-style-type: none"> <li>• Nippon Kaiji Kyokai (NK)</li> </ul>                      | No   |
| <b>EMC</b>  |  |
| standard  |  |
| <ul style="list-style-type: none"> <li>• for emitted interference</li> </ul>                      | EN 55022 Class B   |
| <ul style="list-style-type: none"> <li>• for mains harmonics limitation</li> </ul>                | EN 61000-3-2   |
| <ul style="list-style-type: none"> <li>• for interference immunity</li> </ul>                     | EN 61000-6-2   |
| <b>environmental conditions</b>   |  |
| ambient temperature   |  |
| <ul style="list-style-type: none"> <li>• during operation</li> </ul>                              | -30 ... +70 °C; with natural convection a monotonically increasing start-up from -25 °C, safe start-up from -40 °C |
| <ul style="list-style-type: none"> <li>• during transport</li> </ul>                              | -40 ... +85 °C   |
| <ul style="list-style-type: none"> <li>• during storage</li> </ul>                                | -40 ... +85 °C   |
| environmental category according to IEC 60721   | Climate class 3K3, 5 ... 95% no condensation   |
| <b>Mechanics</b>  |  |
| type of electrical connection   | push-in terminals  |
| <ul style="list-style-type: none"> <li>• at input</li> </ul>                                      | L1/+, L2/N/-, PE: push-in for 0.5 ... 4 mm <sup>2</sup> single-core/finely stranded                                |
| <ul style="list-style-type: none"> <li>• at output</li> </ul>                                     | +1, +2, -1, -2, -3: push-in for 0.5 ... 2.5 mm <sup>2</sup>  |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>                        | 13, 14 (alarm signal): 1 push-in terminal each for 0.2 ... 1.5 mm <sup>2</sup>                                     |
| width of the enclosure  | 35 mm  |
| height of the enclosure   | 135 mm   |
| depth of the enclosure  | 125 mm   |
| required spacing  |  |
| <ul style="list-style-type: none"> <li>• top</li> </ul>   | 45 mm  |
| <ul style="list-style-type: none"> <li>• bottom</li> </ul>  | 45 mm  |
| <ul style="list-style-type: none"> <li>• left</li> </ul>  | 0 mm   |
| <ul style="list-style-type: none"> <li>• right</li> </ul>   | 0 mm   |
| net weight  | 0.7 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)                  |

