SIEMENS

Data sheet



Figure similar

SIPLUS POWER MODUL PM1207

SIPLUS S7-1200 PM 1207 based on 6EP1332-1SH71 with conformal coating, -25...+70 °C, stabilized power supply input: 120/230 V AC output: 24 V DC/2.5 A

| Input | |
|--|---|
| type of the power supply network | 1-phase AC |
| supply voltage at AC | |
| • initial value | Automatic range selection |
| supply voltage | |
| • 1 at AC rated value | 120 V |
| 2 at AC rated value | 230 V |
| input voltage | |
| • 1 at AC | 85 132 V |
| • 2 at AC | 176 264 V |
| design of input wide range input | No |
| overvoltage overload capability | 2.3 × Vin rated, 1.3 ms |
| operating condition of the mains buffering | at Vin = 93/187 V |
| buffering time for rated value of the output current in the event of power failure minimum | 20 ms |
| operating condition of the mains buffering | at Vin = 93/187 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 | 1.2 A |
| at rated input voltage 230 V | 0.67 A |
| current limitation of inrush current at 25 °C maximum | 13 A |
| duration of inrush current limiting at 25 °C | |
| • maximum | 3 ms |
| I2t value maximum | 0.5 A ² ·s |
| fuse protection type | T 3,15 A/250 V (not accessible) |
| • in the feeder | Recommended miniature circuit breaker: 16 A characteristic B or 10 A characteristic C |
| Output | |
| voltage curve at output | Controlled, isolated DC voltage |
| 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 | 0.1 % |
| on slow fluctuation of ohm loading | 0.2 % |

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|---|--|
| residual ripple | 450 V |
| • maximum | 150 mV |
| voltage peak | |
| • maximum | 240 mV |
| product function output voltage adjustable | No |
| type of output voltage setting | - |
| display version for normal operation | Green LED for 24 V OK |
| behavior of the output voltage when switching on | No overshoot of Vout (soft start) |
| response delay maximum | 6 s; 2 s at 230 V, 6 s at 120 V |
| voltage increase time of the output voltage | |
| • typical | 10 ms |
| output current | |
| rated value | 2.5 A |
| rated range | 0 2.5 A |
| supplied active power typical | 60 W |
| short-term overload current | |
| on short-circuiting during the start-up typical | 6 A |
| at short-circuit during operation typical | 6 A |
| duration of overloading capability for excess current | |
| on short-circuiting during the start-up | 100 ms |
| at short-circuit during operation | 100 ms |
| product feature | |
| bridging of equipment | Yes |
| number of parallel-switched equipment resources for | 2 |
| increasing the power | |
| Efficiency | |
| efficiency in percent | 83 % |
| power loss [W] | |
| at rated output voltage for rated value of the output | 12 W |
| current typical | |
| Closed-loop control | |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical | 0.3 % |
| relative control precision of the output voltage load step of resistive load 50/100/50 % typical | 3 % |
| setting time | |
| ● load step 50 to 100% typical | 5 ms |
| ● load step 100 to 50% typical | 5 ms |
| setting time | |
| • maximum | 5 ms |
| Protection and monitoring | |
| | < 33 V |
| design of the overvoltage protection response value current limitation typical | |
| | 2.65 A |
| property of the output short-circuit proof | Yes |
| design of short-circuit protection | Constant current characteristic |
| enduring short circuit current RMS value | 0.7.4 |
| • typical | 2.7 A |
| display version for overload and short circuit | - |
| Safety | |
| galvanic isolation between input and output | Yes |
| galvanic isolation | Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 |
| operating resource protection class | Class I |
| leakage current | |
| • maximum | 3.5 mA |
| protection class IP | IP20 |
| Approvals | |
| certificate of suitability | |
| CE marking | Yes |
| EMC | |
| standard | |
| Gundard | |

| for emitted interference | EN 55022 Class B |
|---|--|
| for mains harmonics limitation | not applicable |
| for interference immunity | EN 61000-6-2 |
| environmental conditions | |
| ambient temperature | |
| in horizontal mounting position during operation | -25 +70 °C; with natural convection |
| during storage and transport | -40 +85 °C |
| installation altitude at height above sea level maximum | 6 000 m |
| ambient condition relating to ambient temperature - air pressure - installation altitude | In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m |
| relative humidity with condensation according to IEC 60068-2-38 maximum | 100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation |
| chemical resistance to commercially available cooling lubricants | Yes; incl. diesel and oil droplets in the air |
| resistance to biologically active substances conformity according to EN 60721-3-3 | Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request |
| resistance to chemically active substances conformity according to EN 60721-3-3 | Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3) |
| resistance to mechanically active substances conformity according to EN 60721-3-3 | Yes; Class 3S4 incl. sand, dust |
| resistance to biologically active substances conformity according to EN 60721-3-6 | Yes; Class 6B2 mold, fungal, sponge spores (except fauna) |
| resistance to chemically active substances conformity according to EN 60721-3-6 | Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3) |
| resistance to mechanically active substances conformity according to EN 60721-3-6 | Yes; Class 6S3 incl. sand, dust |
| coating for equipped printed circuit board according to EN 61086 | Yes; Class 2 for high availability |
| type of coating protection against pollution according to EN 60664-3 | Yes; Type 1 protection |
| type of test of the coating according to MIL-I-46058C | Yes; Discoloration of the coating during service life possible |
| product conformity of the coating Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A | Yes; Conformal Coating, Class A |
| Mechanics | |
| type of electrical connection | screw-type terminals |
| • at input | L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² |
| • at output | L+, M: 2 screw terminals each for 0.5 2.5 mm ² |
| for auxiliary contacts | - |
| width of the enclosure | 70 mm |
| height of the enclosure | 100 mm |
| depth of the enclosure | 75 mm |
| required spacing | |
| • top | 20 mm |
| • bottom | 20 mm |
| • left | 0 mm |
| • right | 0 mm |
| net weight | 0.3 kg |
| product feature of the enclosure housing can be lined up | Yes |
| fastening method | Snaps onto DIN rail EN 60715 35x7.5/15, wall mounting |
| MTBF at 40 °C | 1 492 537 h |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |

