6EP1334-2AA01-0AB0

## **Data sheet**



## SITOP SMART/1AC/24VDC/10A/WALL MOUNTING

SITOP smart 240 W Stabilized power supply input: 120/230 V AC, output: DC 24 V/10 A Option for for wall mounting

| nput   |   |
|--|---|
| type of the power supply network   | 1-phase AC  |
| supply voltage at AC   |   |
| initial value  | Set by means of selector switch on the device                     |
| supply voltage   |   |
| <ul> <li>1 at AC rated value</li> </ul>  | 120 V   |
| 2 at AC rated value  | 230 V   |
| input voltage  |   |
| • 1 at AC  | 85 132 V  |
| • 2 at AC  | 170 264 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  |   |
| <ul> <li>at rated input voltage 120 V</li> </ul>   | 4.1 A   |
| <ul> <li>at rated input voltage 230 V</li> </ul>   | 2.4 A   |
| current limitation of inrush current at 25 °C maximum                                      | 65 A  |
| duration of inrush current limiting at 25 °C   |   |
| • typical  | 3 ms  |
| I2t value maximum  | 3.3 A <sup>2</sup> ·s   |
| fuse protection type   | T 6.3 A/250 V (not accessible)                                    |
| • in the feeder  | Recommended miniature circuit breaker: from 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   |   |
| <ul> <li>on slow fluctuation of input voltage</li> </ul>                                   | 0.1 %   |
| <ul> <li>on slow fluctuation of ohm loading</li> </ul>                                     | 0.5 %   |
| residual ripple  |   |
| maximum  | 150 mV  |

| • typical   | 50 mV  |
|---|--|
| voltage peak  |  |
| maximum   | 240 mV   |
| • typical   | 150 mV   |
| adjustable output voltage   | 22.8 28 V  |
| product function output voltage adjustable  | Yes  |
| type of output voltage setting  | via potentiometer  |
| display version for normal operation  | Green LED for 24 V OK  |
| behavior of the output voltage when switching on  | Overshoot of Vout approx. 4 %  |
|   | 0.1 s  |
| response delay maximum voltage increase time of the output voltage  | 0.15   |
|   | 50 ms  |
| • typical   | 50 1115  |
| output current  | 10 A   |
| • rated value   |  |
| • rated range   | 0 12 A; 12 A up to +45 °C  |
| supplied active power typical   | 288 W  |
| short-term overload current   | 20.4   |
| on short-circuiting during the start-up typical     at chart-circuit during expection typical                   | 30 A   |
| at short-circuit during operation typical   | 33 A   |
| duration of overloading capability for excess current   | 400  |
| on short-circuiting during the start-up   | 100 ms   |
| at short-circuit during operation   | 200 ms   |
| product feature   | V  |
| bridging of equipment   | Yes  |
| number of parallel-switched equipment resources for increasing the power  | 2  |
|   |  |
| Efficiency  | 00.0/  |
| efficiency in percent   | 90 %   |
| power loss [W]  | 07.14  |
| <ul> <li>at rated output voltage for rated value of the output<br/>current typical</li> </ul>                   | 27 W   |
| 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                | 1 %  |
| setting time  |  |
| ● load step 50 to 100% typical  | 0.2 ms   |
| ● load step 100 to 50% typical  | 0.2 ms   |
| Protection and monitoring   |  |
| design of the overvoltage protection  | < 33 V   |
| response value current limitation   | 12.5 13.5 A  |
| property of the output short-circuit proof  | Yes  |
| design of short-circuit protection  | Constant current characteristic  |
| enduring short circuit current RMS value  | STATE OF THE OTHER OFFICE OF THE OTHER OFFICE OF THE OTHER O |
| typical   | 16 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   |
| • typical   | 0.8 mA   |
| protection class IP   | IP20   |
| Approvals   | 11 40  |
|   |  |
| certificate of suitability  | Von  |
| CE marking     LIL approval   | Yes Voc. of It us Listed (LIL 508, CSA C22.2 No. 107.1), File F107250  |
| UL approval     CSA approval  | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259  |
| CSA approval  | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259  |

| a aCCAus Class 1 Division 2                                       | No   |
|---|--|
| • cCSAus, Class 1, Division 2                                     | No<br>No   |
| ATEX     actificate of suitability.                               | No   |
| certificate of suitability  • IECEx                               | No   |
|   | No<br>No   |
| NEC Class 2   | No<br>No   |
| ULhazloc approval   | No   |
| FM registration  A report of a stiff and the CPD postificants.    | No<br>V  |
| type of certification CB-certificate                              | Yes  |
| certificate of suitability  | v.   |
| EAC approval  | Yes  |
| certificate of suitability shipbuilding approval                  | Yes  |
| shipbuilding approval   | DNV GL   |
| Marine classification association                                 |  |
| <ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul> | No   |
| <ul> <li>French marine classification society (BV)</li> </ul>     | No   |
| DNV GL  | Yes  |
| <ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>             | No   |
| Nippon Kaiji Kyokai (NK)  | No   |
| EMC   |  |
| standard  |  |
| <ul> <li>for emitted interference</li> </ul>                      | EN 55022 Class B   |
| <ul> <li>for mains harmonics limitation</li> </ul>                | -  |
| <ul> <li>for interference immunity</li> </ul>                     | EN 61000-6-2   |
| environmental conditions  |  |
| ambient temperature   |  |
| during operation  | 0 60 °C; with natural convection                                     |
| during transport  | -40 +85 °C   |
| during storage  | -40 +85 °C   |
| environmental category acc. to IEC 60721                          | Climate class 3K3, 5 95% no condensation                             |
| Mechanics   |  |
| type of electrical connection                                     | screw-type terminals   |
| at input  | L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely   |
| • at input  | stranded   |
| • at output   | L+, M: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup>            |
| for auxiliary contacts  | - '  |
| width of the enclosure  | 70 mm  |
| height of the enclosure   | 125 mm   |
| depth of the enclosure  | 125 mm   |
| required spacing  |  |
| • top   | 50 mm  |
| • bottom  | 50 mm  |
| • left  | 0 mm   |
| • right   | 0 mm   |
| net weight  | 0.85 kg  |
| product feature of the enclosure housing can be lined up          | Yes  |
| fastening method  | Wall mounting  |
| MTBF at 40 °C   | 1 460 803 h  |
| other information   | Specifications at rated input voltage and ambient temperature +25 °C |
| other information   | (unless otherwise specified)   |

