## SIEMENS

## Data sheet

## 6EP3336-8MB00-2CY0



SITOP PSU8600/1AC/24VDC/20A/4X5A PN

SITOP PSU8600 1AC 20 A/4x5 A PN stabilized power supply input: 100-240 V AC output: 24 V DC/20 A/4x 5 A with PN/IE connection web server integrated OPC UA server integrated \*Ex approval no longer available\*

| Input  |   |
|--|---|
| type of the power supply network   | 1-phase and 2-phase AC or DC  |
| supply voltage at AC   |   |
| minimum rated value  | 100 V   |
| maximum rated value  | 240 V   |
| ● initial value  | 85 V  |
| ● full-scale value   | 275 V   |
| supply voltage   |   |
| • at DC  | 110 220 V   |
| input voltage  |   |
| • at DC  | 93 275 V  |
| design of input wide range input   | Yes   |
| operating condition of the mains buffering   | at Vin = 100 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch   |
| 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 = 100 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch   |
| 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 100 V</li> </ul>   | 5.4 A   |
| <ul> <li>at rated input voltage 120 V</li> </ul>   | 4.5 A   |
| <ul> <li>at rated input voltage 230 V</li> </ul>   | 2.5 A   |
| <ul> <li>at rated input voltage 240 V</li> </ul>   | 2.4 A   |
| <ul> <li>at rated input voltage 110 V</li> </ul>   | 4.8 A   |
| <ul> <li>at rated input voltage 220 V</li> </ul>   | 2.4 A   |
| current limitation of inrush current at 25 °C maximum                                      | 15 A  |
| I2t value maximum  | 4.33 A <sup>2</sup> ·s  |
| fuse protection type   | internal  |
| • in the feeder  | required: circuit breaker (for UL: UL489-listed/DIVQ) characteristic C, 10-32 A, alternatively slow-response fuses (for UL: UL248-listed) |
| Output   |   |
| voltage curve at output  | Controlled, isolated DC voltage   |
| number of outputs  | 4   |
| output voltage at DC rated value   | 24 V  |
| output voltage   |   |
| at output 1 at DC rated value  | 24 V  |
| <ul> <li>at output 2 at DC rated value</li> </ul>  | 24 V  |

| at output 3 at DC rated value   | 24 V  |
|---|---|
| at output 4 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   | 100 mV  |
| voltage peak  |   |
| • maximum   | 200 mV  |
| adjustable output voltage   | 4 28 V  |
| product function output voltage adjustable  | Yes   |
| type of output voltage setting  | via potentiometer or IE/PN interface; Derating > 24 V: 4%/V; max. 120 W per output, max. 480 W overall system   |
| display version for normal operation  | 3-color LED for operating state device; LED for operating mode manual/remote;<br>4 LEDs for communication PROFINET; 3-color LED per output for operating<br>state output; LED green for parallel operation Output 1 and 2 / 3 and 4 |
| type of signal at output  | Relay contact (changeover contact, contact current capacity DC 60 V/0.3 A) for<br>"Operating state OK"  |
| behavior of the output voltage when switching on  | No overshoot of Vout (soft start)   |
| response delay maximum  | 1 s; Without on-delay of the outputs  |
| type of outputs connection  | Simultaneous connecting-in of all outputs after device booting or delay time of 25 ms, 100 ms or "load-optimized" for sequential cutting-in of the outputs via DIP switches can be set  |
| <ul> <li>voltage increase time of the output voltage</li> <li>maximum</li> </ul>                                | 500 ms  |
| output current  |   |
| rated value   | 20 A  |
| ● per output  | 5 A   |
| <ul> <li>at output 1 rated value</li> </ul>   | 5 A   |
| <ul> <li>at output 2 rated value</li> </ul>   | 5 A   |
| <ul> <li>at output 3 rated value</li> </ul>   | 5 A   |
| <ul> <li>at output 4 rated value</li> </ul>   | 5 A   |
| • rated range   | 0 20 A  |
| supplied active power typical   | 480 W   |
| product feature   |   |
| parallel switching of outputs   | Yes; Parallel circuit Output 1 with 2 or Output 3 with 4 can be selected via DIP switch   |
| <ul> <li>bridging of equipment</li> </ul>   | No  |
| Efficiency  |   |
| efficiency in percent   | 92 %  |
| power loss [W]  |   |
| <ul> <li>at rated output voltage for rated value of the output<br/>current typical</li> </ul>                   | 39 W  |
| during no-load operation maximum  | 14 W  |
| Closed-loop control   |   |
| relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical | 0.1 %   |
| relative control precision of the output voltage load step of resistive load 50/100/50 % typical                | 0.4 %   |
| setting time  |   |
| • maximum   | 10 ms   |
| Protection and monitoring   |   |
| design of the overvoltage protection  | max. 35 V (max. 500 ms)   |
| property of the output short-circuit proof  | Yes   |
| design of short-circuit protection  | electronic overload cut-off; optionally constant current operation can be selected for Output 4 via DIP switches  |
| adjustable current response value current of the current-<br>dependent overload release                         | 0.5 5 A   |
| type of response value setting  | via potentiometer or IE/PN interface  |
| switching characteristic  | via potentionieter of iEA reintendee  |
|   |   |
| of the excess current   | la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms  |

| design of the reset device/resetting mechanism  | via concer per output or IE/DN interface   |
|---|--|
| design of the reset device/resetting mechanism  | via sensor per output or IE/PN interface   |
| remote reset function   | Non-electrically isolated 24 V input (signal level "high" at > 15 V)   |
| overcurrent overload capability in normal operation<br>display version for overload and short circuit | Total system overloadable 150% la rated to 5 s/min<br>3-color LED for operating state device; 3-color LED per output for operating<br>state output   |
| Interface   |  |
| design of the interface   | Ethernet/PROFINET  |
| PROFINET protocol   | Yes  |
| protocol is supported OPC UA  | Yes  |
| 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<br>• maximum  | 3.5 mA   |
|   | IP20   |
| 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)  |
| <ul> <li>CSA approval</li> </ul>  | No; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)   |
| NEC Class 2   | No   |
| EAC approval  | Yes  |
| type of certification   |  |
| • BIS   | Yes; R-41188271  |
| CB-certificate  | Yes  |
| certificate of suitability  |  |
| • IECEx   | No   |
| • ATEX  | No   |
| ULhazloc approval   | No   |
| <ul> <li>cCSAus, Class 1, Division 2</li> </ul>   | No   |
| FM registration   | No   |
| certificate of suitability shipbuilding approval  | No   |
| 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   |
| Lloyds Register of Shipping (LRS)   | No   |
| EMC   |  |
| standard  |  |
| <ul> <li>for emitted interference</li> </ul>  | EN 55022 Class B   |
| <ul> <li>for mains harmonics limitation</li> </ul>  | EN 61000-3-2   |
| <ul> <li>for interference immunity</li> </ul>   | EN 61000-6-2   |
| environmental conditions  |  |
| ambient temperature   |  |
| during operation  | -25 +60 °C; with natural convection  |
| 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   | Plug-in terminals with screwed connection  |
| • at input  | L1/+, N/L2/-, PE: Plug-in terminal with 1 screwed connection each for 0.2 $\ldots$ 4 $\rm mm^2$ single-wire / fine stranded  |
| ● at output   | 1, 2, 3, 4: Two plug-in terminals (1, 2 and 3, 4) with 2 screwed connections each for 0.2 2.5 mm <sup>2</sup> ; 0 V: Plug-in terminal with 3 screwed connections for 0.2 4 mm <sup>2</sup> |
| <ul> <li>for auxiliary contacts</li> </ul>  | RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 1.5 mm <sup>2</sup>   |
| <ul> <li>for signaling contact</li> </ul>   | 11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed connection each for 0.2 1.5 $\rm mm^2$  |
| product function  | Yee  |
| <ul> <li>removable terminal at input</li> </ul>   | Yes  |

| <ul> <li>removable terminal at output</li> </ul>         | Yes   |
|--|---|
| design of the interface for communication                | PROFINET/Ethernet: two RJ45 sockets (2-port switch)   |
| suitability for interaction modular system               | Yes   |
| width of the enclosure                                   | 125 mm  |
| height of the enclosure                                  | 125 mm  |
| depth of the enclosure                                   | 150 mm  |
| required spacing   |   |
| • top  | 50 mm   |
| • bottom   | 50 mm   |
| • left   | 0 mm  |
| • right  | 0 mm  |
| net weight   | 2.6 kg  |
| product feature of the enclosure housing can be lined up | Yes   |
| fastening method   | Snaps onto DIN rail EN 60715 35x15  |
| electrical accessories                                   | Expansion modules CNX8600, buffer modules BUF8600, module UPS8600   |
| mechanical accessories                                   | Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20   |
| MTBF at 40 °C  | 186 700 h   |
| other information  | Specifications at rated input voltage and ambient temperature +25 $^\circ\text{C}$ (unless otherwise specified) |

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