SIEMENS

Data sheet 6EP7133-6AB00-0BN0

SIMATIC ET 200SP PS/1AC/24VDC/5A

SIMATIC ET 200SP PS 24V/5A Stabilized power supply Input: 120/230 V AC Output: 24 V DC/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	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	
● at rated input voltage 120 V	2.16 A
● at rated input voltage 230 V	1.22 A
current limitation of inrush current at 25 °C maximum	45 A
I2t value maximum	3.15 A²·s
fuse protection type	T 3,15 A/250 V (not accessible)
● in the feeder	recommended LS switch: B/C 6 A/3 A
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	1 %
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
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
behavior of the output voltage when switching on	Overshoot of Vout < 3 %
response delay maximum	0.3 s
voltage increase time of the output voltage	
● typical	30 ms
output current	
● rated value	5 A
● rated range	0 ... 6 A; 5 A up to +60°C; +60 ... +70 °C: Derating 3%/K
supplied active power typical	120 W
short-term overload current	
● on short-circuiting during the start-up typical	15 A
● at short-circuit during operation typical	15 A
duration of overloading capability for excess current	
● on short-circuiting during the start-up	800 ms
● at short-circuit during operation	800 ms
product feature	
● bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	88 %
power loss [W]	
● at rated output voltage for rated value of the output current typical	17 W
● during no-load operation maximum	2.7 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 at load step of resistive load 10/90/10 % typical	3 %
setting time	
● load step 10 to 90% typical	1 ms
● load step 90 to 10% typical	1 ms
Protection and monitoring	
design of the overvoltage protection	protection against overvoltage in case of internal fault Vout < 31.8 V
response value current limitation	7 ... 7.5 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
● typical	7 A
overcurrent overload capability in normal operation	overload capability 150 % Iout rated up to 5 s/min
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	1 mA
protection class IP	IP20
Approvals	
certificate of suitability	
● CE marking	Yes
● UL approval	Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
● CSA approval	Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142), cCSAus (CSA C22.2

	No. 60950-1, UL 60950-1)
● cCSAus, Class 1, Division 2	No
● ATEX	Yes; ATEX (EX) II 3G Ex ec nC IIC T3 Gc
certificate of suitability	
● relating to ATEX	IECEx Ex ec nC IIC T3 Gc; ATEX (EX) II 3G Ex ec nC IIC T3 Gc
● IECEx	Yes; IECEx Ex ec nC IIC T3 Gc
● NEC Class 2	No
● ULhazloc approval	No
type of certification CB-certificate	Yes
certificate of suitability	
● EAC approval	Yes
● C-Tick	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	BV, DNV GL
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	No
● French marine classification society (BV)	Yes
● DNV GL	Yes
● Lloyds Register of Shipping (LRS)	No
● Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
● for emitted interference	EN 61000-6-3 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
● 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	L, N, PE: 1 push-in terminal each for 0.2 ... 2.5 mm² single-core/finely stranded
● at output	+, -: 2 push-in terminals each for 0.2 ... 2.5 mm²
● for auxiliary contacts	Signaling contact: 2 push-in terminals for 0.2 ... 2.5 mm²
● for signaling contact	2 push-in terminals for 0.2 ... 2.5 mm²
product function	
● removable terminal at input	Yes
● removable terminal at output	Yes
width of the enclosure	160 mm
height of the enclosure	117 mm
depth of the enclosure	74 mm
required spacing	
● top	50 mm
● bottom	50 mm
● left	0 mm
● right	0 mm
net weight	0.5 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	Redundancy module, buffer module, selectivity module, DC UPS
MTBF at 40 °C	1 598 441 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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