## **SIEMENS**

## **Data sheet**

6EP7133-6AE00-0BN0

SIMATIC ET 200SP PS/1AC/24VDC/10A

SIMATIC ET 200SP PS 24V/10A Stabilized power supply Input: 120/230 V AC Output: 24 V DC/10 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	
<ul> <li>at rated input voltage 120 V</li> </ul>	4.34 A
<ul> <li>at rated input voltage 230 V</li> </ul>	1.92 A
current limitation of inrush current at 25 °C maximum	60 A
I2t value maximum	6.3 A²·s
fuse protection type	T 6.3 A/250 V (not accessible)
• in the feeder	recommended LS switch: B/C 10 A/6 A
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
<ul> <li>at output 1 at DC rated value</li> </ul>	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	40 A
• rated value	10 A
rated range  supplied active power typical	0 12 A; 10 A up to +60°C; +60 +70 °C: Derating 3%/K
supplied active power typical	240 W
short-term overload current	20 A
on short-circuiting during the start-up typical     at short circuit during operation typical	30 A
at short-circuit during operation typical  duration of overloading capability for excess current	30 A
on short-circuiting during the start-up	750 ms
at short-circuit during operation	800 ms
product feature	OUT III
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	90 %
power loss [W]	00 //
at rated output voltage for rated value of the output	26 W
current typical	2.8 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	
<ul> <li>load step 10 to 90% typical</li> </ul>	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	14 15 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• typical	14.1 A
overcurrent overload capability in normal operation	overload capability 150 % lout 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	2.5 4
• maximum	3.5 mA
• typical	1 mA
protection class IP	IP20
Approvals	
certificate of suitability	Vec
<ul><li>CE marking</li><li>UL approval</li></ul>	Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2
CSA approval	No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142), cCSAus (CSA C22.2
200Aug Oleve 4 Division	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	IFOEW EV composition To Constitute (EV) II and Every Collection
• relating to ATEX	IECEX Ex ec nC IIC T3 Gc; ATEX (EX) II 3G Ex ec nC IIC T3 Gc
IECEx     NEC Class 2	Yes; IECEx Ex ec nC IIC T3 Gc
NEC Class 2      Ul hazing approval	No
ULhazloc approval  type of certification CB-certificate	Yes
•	100
certificate of suitability	

EAC approval	Yes
• C-Tick	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	BV, DNV GL
Marine classification association	51,511 62
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 mm <sup>2</sup>
<ul> <li>for auxiliary contacts</li> </ul>	Signaling contact: 2 push-in terminals for 0.2 2.5 mm²
for signaling contact	2 push-in terminals for 0.2 2.5 mm <sup>2</sup>
product function	
<ul> <li>removable terminal at input</li> </ul>	Yes
<ul> <li>removable terminal at output</li> </ul>	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	0.7 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	Redundancy module, buffer module, selectivity module, DC UPS
MTBF at 40 °C	1 114 510 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

