## SIEMENS

## Data sheet

## 6EP7133-6AE00-0BN0



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	Automatic range selection
supply voltage	120 V/230 V
input voltage 1 at AC	85 132 V
input voltage 2 at AC	170 264 V
wide range input	No
overvoltage overload capability	2.3 × Vin rated, 1.3 ms
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	50/60 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 A <sup>2</sup> ·s
fuse protection type	T 6.3 A/250 V (not accessible)
fuse protection type 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	
• at output 1 at DC rated value	24 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	22.8 28 V
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>	1 %
residual ripple	
• maximum	150 mV
• typical	50 mV
voltage peak	
• maximum	240 mV
• typical	150 mV
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 %

voltage increase time of the output voltage	00		
typical	30 ms		
output current			
rated value	10 A		
rated range	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			
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	30 A		
<ul> <li>at short-circuit during operation typical</li> </ul>	30 A		
duration of overloading capability for excess current			
<ul> <li>on short-circuiting during the start-up</li> </ul>	750 ms		
at short-circuit during operation	800 ms		
bridging of equipment	Yes		
number of parallel-switched equipment resources for increasing the power	2		
efficiency			
efficiency in percent	90 %		
power loss [W]			
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	26 W		
<ul> <li>during no-load operation maximum</li> </ul>	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		
<ul> <li>load step 90 to 10% typical</li> </ul>	1 ms		
protection and monitoring			
design of the overvoltage protection	protection against overvoltage in case of internal fault Vout < 31.8 V		
property of the output short-circuit proof	Yes		
design of short-circuit protection	Constant current characteristic		
response value current limitation	14 15 A		
overcurrent overload capability			
• in normal operation	overload capability 150 % lout rated up to 5 s/min		
enduring short circuit current RMS value			
• typical	14.1 A		
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	0.5 4		
• maximum	3.5 mA		
• typical	1 mA		
protection class IP	IP20		
standard	EN 61000 6 2 Close B		
for emitted interference     for mains harmonics limitation	EN 61000-6-3 Class B		
for mains harmonics limitation     for interference immunity	EN 61000-3-2		
for interference immunity     standards specifications approvals	EN 61000-6-2		
standards, specifications, approvals			
certificate of suitability	Yes		
<ul> <li>CE marking</li> <li>UL approval</li> </ul>	Yes 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)		
• EAC approval	Yes		
NEC Class 2	No		
type of certification <ul> <li>CB-certificate</li> </ul>	Yes		
• CB-certificate	1 114 510 h		
INITEL AL40 C	1 114 31011		

rds, specifications, approvals hazardous environments			
cate of suitability			
-	es; IECEx Ex ec nC IIC T3 Gc		
	Yes; ATEX (EX) II 3G Ex ec nC IIC T3 Gc		
	No		
cCSAus, Class 1, Division 2			
rds, specifications, approvals marine classification			
	/es		
e classification association	65		
	la		
	/es		
	es Yes		
Lloyds Register of Shipping (LRS) No			
rds, specifications, approvals Environmental Product Declara			
	/es		
Il Warming Potential [CO2 eq]			
	27.7 kg		
с с	3.8 kg		
	13.3 kg		
	.44 kg		
it conditions			
ent temperature			
during operation -3	30 +70 °C; with natural convection		
during transport -4	40 +85 °C		
during storage -4	40 +85 °C		
onmental category according to IEC 60721 CI	Climate class 3K3, 5 95% no condensation		
tion method			
of electrical connection pu	ush-in terminals		
at input L,	, N, PE: 1 push-in terminal each for 0.2 2.5 mm <sup>2</sup> single-core/finely stranded		
at output +,	-, -: 2 push-in terminals each for 0.2 2.5 mm <sup>2</sup>		
for auxiliary contacts Si	Signaling contact: 2 push-in terminals for 0.2 2.5 mm <sup>2</sup>		
for signaling contact 2	push-in terminals for 0.2 2.5 mm <sup>2</sup>		
vable terminal at input	'es		
	/es		
nical data			
	60 × 74		
	60 mm		
ed spacing			
	0 mm		
	0 mm		
	Imm		
5			
•	Snaps onto DIN rail EN 60715 35x7.5/15		
	/es		
S7 rail mounting			
wall mounting No			
	/es		
-	.7 kg		
ories			
	Redundancy module, buffer module, selectivity module, DC UPS		
nal information			
	Specifications at rated input voltage and ambient temperature +25 °C (unless		
	therwise specified)		
that in the state of the state	Siemens provides products and solutions with industrial cybersecurity functions nat support the secure operation of plants, systems, machines and networks. n order to protect plants, systems, machines and networks against cyber nreats, it is necessary to implement – and continuously maintain – a holistic, tate-of-the-art industrial cybersecurity concept. Siemens' products and olutions constitute one element of such a concept. Customers are responsible or preventing unauthorized access to their plants, systems, machines and etworks. Such systems, machines and components should only be connected in the intervent of such a concept the system context and etworks. Such systems, machines and components should only be connected in the intervent of the intervent for additional access the system context of the system context and in the intervent of the intervent for additional access the system context of the system context and in the intervent of the intervent for additional access to the system context of the syst		
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				Version	Classification
			eClass	14	27-04-07-01
			eClass	12	27-04-07-01
			eClass	9.1	27-04-07-01
			eClass	9	27-04-07-01
			eClass	8	27-04-90-02
			eClass	7.1	27-04-90-02
			eClass	6	27-04-90-02
			ETIM	9	EC002540
			ETIM	8	EC002540
			ETIM	7	EC002540
			IDEA	4	4130
			UNSPSC	15	39-12-10-04
Approvals Certificates					
General Product Approva	I		For use in hazardous	locations	
СВ	() E	<u>Manufacturer De</u> <u>tion</u>	IECEx	K ATEX	B U REAU VERITAS
For use in hazardous loca	ations	Marine / Shippi	ing Environment		
<u>CCC-Ex</u>	(U) II		EPD		

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