6EP7133-6AE00-0BN0

Data sheet



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	
 at rated input voltage 120 V 	4.34 A
 at rated input voltage 230 V 	1.92 A
current limitation of inrush current at 25 °C maximum	60 A
I2t value maximum	6.3 A ² ·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	
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
• 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	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	
 on short-circuiting during the start-up typical 	30 A
at short-circuit during operation typical	30 A
duration of overloading capability for excess current	
on short-circuiting during the start-up	750 ms
at short-circuit during operation	800 ms
product feature	
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing	2
the power	
Efficiency	
efficiency in percent	90 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	26 W
during no-load operation maximum	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	
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	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	Constant our one ordinationally
Chairing Short Grount Gullent Kivio value	
• typical	14 1 Δ
typical versurrent everload canability in normal operation	14.1 A
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
overcurrent overload capability in normal operation display version for overload and short circuit	
overcurrent overload capability in normal operation display version for overload and short circuit Safety	overload capability 150 % lout rated up to 5 s/min
overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output	overload capability 150 % lout rated up to 5 s/min - Yes
overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation	overload capability 150 % lout rated up to 5 s/min - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class	overload capability 150 % lout rated up to 5 s/min - Yes
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overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	overload capability 150 % lout rated up to 5 s/min - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I
overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	overload capability 150 % lout rated up to 5 s/min - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	overload capability 150 % lout rated up to 5 s/min - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 1 mA
overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP	overload capability 150 % lout rated up to 5 s/min - Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 1 mA
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overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability	overload capability 150 % lout rated up to 5 s/min Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 1 mA IP20 Yes Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2
overcurrent overload capability in normal operation display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking	overload capability 150 % lout rated up to 5 s/min Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 1 mA IP20

	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 mm ²
for auxiliary contacts	Signaling contact: 2 push-in terminals for 0.2 2.5 mm ²
for signaling contact	2 push-in terminals for 0.2 2.5 mm ²
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
	0 mm
• right	
net weight	0.7 kg Yes
product feature of the enclosure housing can be lined up	
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15 Podundancy modulo, buffer modulo, soloctivity modulo, DC LIPS
electrical accessories	Redundancy module, buffer module, selectivity module, DC UPS
MTBF at 40 °C	1 114 510 h
outer information	otherwise specified)
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)



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