6EP7133-6AB00-0BN0

Data sheet



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 A ² ·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 i	mV
• typical 150	
9F	28 V
product function output voltage adjustable Yes	= 0
	ootentiometer
	en LED for 24 V OK
	y contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
	rshoot of Vout < 3 %
response delay maximum 0.3 s	
voltage increase time of the output voltage	,
• typical 30 m	
output current	
• rated value 5 A	
	6 A; 5 A up to +60°C; +60 +70 °C: Derating 3%/K
supplied active power typical 120	
short-term overload current	vv
 at short-circuit during operation typical duration of overloading capability for excess current 	
on short-circuiting during the start-up	ms
Ü .	IIIO
product feature	
bridging of equipment Yes number of parallel-switched equipment resources for increasing 2	
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	V
current typical	
 during no-load operation maximum 2.7 V 	N
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	
setting time	
• load step 10 to 90% typical 1 ms	3
• load step 90 to 10% typical 1 ms	3
Protection and monitoring	
design of the overvoltage protection prote	ection against overvoltage in case of internal fault Vout < 31.8 V
	7.5 A
property of the output short-circuit proof Yes	
	stant current characteristic
enduring short circuit current RMS value	
• typical 7 A	
	load capability 150 % lout rated up to 5 s/min
display version for overload and short circuit -	load capability 150 % lout rated up to 5 s/min
	load capability 150 % lout rated up to 5 s/min
display version for overload and short circuit - Safety	load capability 150 % lout rated up to 5 s/min
display version for overload and short circuit Safety galvanic isolation between input and output Yes	
display version for overload and short circuit Safety galvanic isolation between input and output yes galvanic isolation Safe	ety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
display version for overload and short circuit Safety galvanic isolation between input and output yes galvanic isolation Safe operating resource protection class Class	ety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
display version for overload and short circuit Safety galvanic isolation between input and output yes galvanic isolation Safe	ety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 s I
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display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation Safe operating resource protection class leakage current maximum typical protection class IP Approvals certificate of suitability CE marking UL approval Yes;	ety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 s I

	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 input 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
<u> </u>	Snaps onto DIN rail EN 60715 35x7.5/15
fastening method 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
onor information	otherwise specified)

