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 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	0.0 3
typical	30 ms
output current	00 110
• 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	120 VV
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	000 1110
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing	2
the power	2
Efficiency	
efficiency in percent	88 %
power loss [W]	
 at rated output voltage for rated value of the output 	17 W
current typical	
 during no-load operation maximum 	2.7 W
Closed-loop control	0.2 %
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 with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage at load step of	3 %
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	
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relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical 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 • load step 90 to 10% typical Protection and monitoring design of the overvoltage protection response value current limitation property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical 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	1 ms 1 ms 1 ms protection against overvoltage in case of internal fault Vout < 31.8 V 7 7.5 A Yes Constant current characteristic 7 A 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

	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	EN 01000 0 E
ambient temperature	
during operation	-30 +70 °C; with natural convection
during operation during transport	-40 +85 °C
during storage	-40 +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	Offinials diass and, a 30 % no condensation
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 for a william contacts.	+, -: 2 push-in terminals each for 0.2 2.5 mm²
for auxiliary contacts for aignaling contact	Signaling contact: 2 push-in terminals for 0.2 2.5 mm ²
for signaling contact Track at fire stars.	2 push-in terminals for 0.2 2.5 mm ²
product function	Vec
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	50
• 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)

