6EP7133-6AE00-0BN0

Data sheet

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	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	
 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 A²·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 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
	30 1117
voltage peak	SUTITY
voltage peak • maximum	240 mV
• maximum	240 mV
maximum typical	240 mV 150 mV

response delay maximum	0.3 s	
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		
 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	
bridging of equipment	Yes	
number of parallel-switched equipment resources for increasing the power	2	
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	
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		
maximum	3.5 mA	
• typical	1 mA	
protection class IP	IP20	
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	
standards, specifications, approvals		
certificate of suitability		
	Yes	
certificate of suitability	Yes Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	
certificate of suitability • CE marking	Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2	
certificate of suitability • CE marking • UL approval	Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142), cCSAus (CSA C22.2	
certificate of suitability CE marking UL approval CSA approval	Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142), cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)	
certificate of suitability CE marking UL approval CSA approval EAC approval	Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142); cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL61010-2-201, CSA C22.2 No.142), cCSAus (CSA C22.2 No. 60950-1, UL 60950-1) Yes	

CB-certificate	Yes
MTBF at 40 °C	1 114 510 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• IECEx	Yes; IECEx Ex ec nC IIC T3 Gc
• ATEX	Yes; ATEX (EX) II 3G Ex ec nC IIC T3 Gc
ULhazloc approval	Yes
• cCSAus, Class 1, Division 2	No
• UKEX	Yes
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
French marine classification society (BV)	Yes
Det Norske Veritas (DNV)	Yes
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product Dec	claration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	827.7 kg
during manufacturing	13.8 kg
during operation	813.3 kg
after end of life	0.44 kg
ambient 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
connection method	S
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 mm²
removable terminal at input	Yes
removable terminal at output	Yes
mechanical data	165
width × height × depth of the enclosure	160 × 117 × 74 mm
installation width × mounting height	160 mm × 174 mm
required spacing	100 11111 ^ 174 111111
	50 mm
• top • bottom	50 mm
• left	0 mm
	0 mm
right fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
-	Yes
standard rail mountingS7 rail mounting	No
-	No
wall mounting	Yes
housing can be lined up net weight	ves 0.7 kg
accessories	U.I Ng
accessories	Podundanov modula, huffor modula, polastivity modula, DO LIDO
alastrical accessories	Redundancy module, buffer module, selectivity module, DC UPS
electrical accessories	
further information internet links	
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internet link internet link to website: Industry Mall to website: Industrial communication	https://siemens.com/industrial-communication
internet link internet link • to website: Industry Mall • to website: Industrial communication • to website: CAx-Download-Manager	https://siemens.com/industrial-communication https://siemens.com/cax
internet link internet link to website: Industry Mall to website: Industrial communication	https://siemens.com/industrial-communication

other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

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Classifications

	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 Approval

For use in hazardous locations





Manufacturer Declaration







For use in hazardous locations

Marine / Shipping

Environment









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8/30/2024