## **Data sheet**



SIMATIC ET 200SP PS 24V/5A Stabilized power supply Input: 120/230 V AC Output: 24 V DC/5 A



1-phase AC
Automatic range selection
120 V
230 V
85 132 V
170 264 V
No
2.3 × Vin rated, 1.3 ms
at Vin = 93/187 V
20 ms; at Vin = 93/187 V
50 Hz
60 Hz
47 63 Hz
2.16 A
1.22 A
45 A
3.15 A <sup>2</sup> ·s
T 3,15 A/250 V (not accessible)
recommended LS switch: B/C 6 A/3 A
Controlled, isolated DC voltage
24 V
24 V
3 %
0.1 %
1 %
150 mV
50 mV
240 mV
150 mV
22.8 28 V
Yes
via potentiometer

Status display	Green LED for 24 V OK
Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
On/off behavior	Overshoot of Vout < 3 %
Startup delay, max.	0.3 s
Voltage rise, typ.	30 ms
Rated current value lout rated	5 A
Current range	0 6 A
Note	5 A up to +60°C; +60 +70 °C: Derating 3%/K
supplied active power typical	120 W
short-term overload current	120 11
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
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced	2
performance	
Efficiency	
Efficiency at Vout rated, lout rated, approx.	88 %
Power loss at Vout rated, lout rated, approx.	17 W
power loss [W] during no-load operation maximum	2.7 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.3 %
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	3 %
Load step setting time 10 to 90%, typ.	1 ms
Load step setting time 90 to 10%, typ.	1 ms
Protection and monitoring	Tille
Output overvoltage protection	protection against overvoltage in case of internal fault Vout < 31.8 V
Current limitation	7 7.5 A
property of the output short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	Constant current characteristic
• typical	7 A
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
Overload/short-circuit indicator	-
Safety	
	V
Primary/secondary isolation	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
leakage current	0.5
• maximum	3.5 mA
• typical	1 mA
Degree of protection (EN 60529)	IP20
Approvals	
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL61010-2-201, CSA C22.2 No.142), cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
certificate of suitability NEC Class 2	No
CB approval	Yes
certificate of suitability EAC approval	Yes
Marine approval	BV, DNV GL
EMC	
Emitted interference	EN 61000-6-3 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2
environmental conditions	
ambient temperature	

<ul> <li>during operation</li> </ul>	-30 +70 °C
— Note	with natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
Connection technology	Push-in terminals
Connections	
Supply input	L, N, PE: 1 push-in terminal each for 0.2 2.5 mm² single-core/finely stranded
<ul> <li>Output</li> </ul>	+, -: 2 push-in terminals each for 0.2 2.5 mm²
<ul><li>Auxiliary</li></ul>	Signaling contact: 2 push-in terminals for 0.2 2.5 mm <sup>2</sup>
signaling contact	2 push-in terminals for 0.2 2.5 mm <sup>2</sup>
product function	
<ul> <li>removable terminal at input</li> </ul>	Yes
<ul> <li>removable terminal at output</li> </ul>	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
Weight, approx.	0.5 kg
product feature of the enclosure housing can be lined up	Yes
Installation	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)

