SIEMENS

Data sheet

6EP1332-1SH71



SIMATIC PM1207/1AC/24VDC/2.5A

SIMATIC S7-1200 Power Module PM1207 Stabilized power supply input: 120/230 V AC, output: DC 24 V/2,5 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	176 264 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 	1.2 A
 at rated input voltage 230 V 	0.67 A
current limitation of inrush current at 25 °C maximum	13 A
duration of inrush current limiting at 25 °C	
• maximum	3 ms
I2t value maximum	0.5 A ² ·s
fuse protection type	T 3,15 A/250 V (not accessible)
• in the feeder	Recommended miniature circuit breaker: 16 A characteristic B or 10 A characteristic C
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 	0.2 %
residual ripple	
• maximum	150 mV
voltage peak	

• maximum	240 mV
product function output voltage adjustable	No
type of output voltage setting	
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	6 s; 2 s at 230 V, 6 s at 120 V
voltage increase time of the output voltage	10
• typical	10 ms
output current	0.5.4
rated value	2.5 A
rated range	0 2.5 A
supplied active power typical	60 W
short-term overload current	C A
 on short-circuiting during the start-up typical at short circuit during operation typical 	6 A 6 A
at short-circuit during operation typical	0 A
 duration of overloading capability for excess current on short-circuiting during the start-up 	100 ms
 at short-circuit during during the stan-up at short-circuit during operation 	100 ms
5 1	100 115
 product feature bridging of equipment 	Yes
phaging of equipment number of parallel-switched equipment resources for	2
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	83 %
power loss [W]	00 /0
at rated output voltage for rated value of the output	12 W
current typical	12 VV
Closed-loop control	
relative control precision of the output voltage with rapid	0.3 %
fluctuation of the input voltage by +/- 15% typical	0.3 %
relative control precision of the output voltage load step of	3 %
resistive load 50/100/50 % typical	
setting time	
 load step 50 to 100% typical 	5 ms
 load step 100 to 50% typical 	5 ms
setting time	
• maximum	5 ms
Protection and monitoring	
design of the overvoltage protection	< 33 V
• typical	2.65 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• typical	2.7 A
display version for overload and short circuit	-
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
protection class IP	IP20
Approvals	
certificate of suitability	
• CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;
	cURus-Recognized (UL 60950-1, CSA C22.2 No. 60950-1) File
	E151273
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259;
	cURus-Recognized (UL 60950-1, CSA C22.2 No. 60950-1) File E151273
 cCSAus, Class 1, Division 2 	E 151275 No
ATEX	Yes; ATEX (EX) II 3G Ex nA nC IIC T4 Gc
certificate of suitability	
or mode of suitability	

 relating to ATEX 	
	IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC IIC T4 Gc; cULus (ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455
• IECEx	Yes; IECEx Ex nA nC IIC T4 Gc
NEC Class 2	No
ULhazloc approval	Yes
FM registration	Yes; Class I, Div. 2, Group ABCD, T4
type of certification CB-certificate	Yes
certificate of suitability	
EAC approval	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, BV, DNV GL, LRS, NK
Marine classification association	ADO, DV, DIVV OL, EIXO, NIX
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)	Yes
DNV GL	Yes
	Yes
Lloyds Register of Shipping (LRS)	
Nippon Kaiji Kyokai (NK)	Yes
EMC	
standard	
 for emitted interference 	EN 55022 Class B
 for mains harmonics limitation 	not applicable
for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
 during operation 	0 60 °C; with natural convection
 during transport 	-40 +85 °C
 during storage 	-40 +85 °C
	Climate class 3K3, 5 95% no condensation
environmental category according to IEC 60721	
environmental category according to IEC 60721 Mechanics	
	screw-type terminals
Mechanics	
Mechanics type of electrical connection	screw-type terminals
Mechanics type of electrical connection • at input	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ²
Mechanics type of electrical connection • at input • at output	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ²
Mechanics type of electrical connection • at input • at output • for auxiliary contacts	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² L+, M: 2 screw terminals each for 0.5 2.5 mm ²
Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² L+, M: 2 screw terminals each for 0.5 2.5 mm ² - 70 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² L+, M: 2 screw terminals each for 0.5 2.5 mm ² - 70 mm 100 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² L+, M: 2 screw terminals each for 0.5 2.5 mm ² - 70 mm 100 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² L+, M: 2 screw terminals each for 0.5 2.5 mm ² - 70 mm 100 mm 75 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing • top	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² L+, M: 2 screw terminals each for 0.5 2.5 mm ² - 70 mm 100 mm 75 mm 20 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² L+, M: 2 screw terminals each for 0.5 2.5 mm ² - 70 mm 100 mm 75 mm 20 mm 20 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² L+, M: 2 screw terminals each for 0.5 2.5 mm ² - 70 mm 100 mm 75 mm 20 mm 0 mm 0 mm 0 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² L+, M: 2 screw terminals each for 0.5 2.5 mm ² - 70 mm 100 mm 75 mm 20 mm 0 mm
Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight product feature of the enclosure housing can be lined up	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² L+, M: 2 screw terminals each for 0.5 2.5 mm ² - 70 mm 100 mm 75 mm 20 mm 20 mm 0 mm 0 mm 0 mm 0.3 kg Yes
Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² L+, M: 2 screw terminals each for 0.5 2.5 mm ² - 70 mm 100 mm 75 mm 20 mm 20 mm 0 mm 0 mm 0.3 kg
Mechanics type of electrical connection at input at output for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing top bottom left right net weight product feature of the enclosure housing can be lined up fastening method 	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² L+, M: 2 screw terminals each for 0.5 2.5 mm ² - 70 mm 100 mm 75 mm 20 mm 20 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 skg Yes Snaps onto DIN rail EN 60715 35x7.5/15, wall mounting 1 492 537 h
Mechanics type of electrical connection • at input • at output • for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight product feature of the enclosure housing can be lined up fastening method MTBF at 40 °C	screw-type terminals L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² L+, M: 2 screw terminals each for 0.5 2.5 mm ² - 70 mm 100 mm 75 mm 20 mm 20 mm 0 mm 0 mm 0 mm 0.3 kg Yes Snaps onto DIN rail EN 60715 35x7.5/15, wall mounting

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