SIEMENS

Data sheet 6EP3333-4SB00-3AX0



SIMATIC PM1207/1AC/24VDC/5A

SIMATIC S7-1200 power module PM 1207 24 V/5 A stabilized power supply input: 120 - 240 V AC/DC output: 24 V DC/5 A with diagnostic interface

General information	
Technical Product Detail Page	https://i.siemens.com/1P6EP3333-4SB00-3AX0
product brand name	SIMATIC
product type designation	PM 1207
product designation	S7-1200 Power Module
type of current supply	24 V/5 A
input	
type of the power supply network	1-phase AC or DC
phase number	1
voltage curve at input	AC/DC
supply voltage at AC	
● minimum rated value	120 V
● maximum rated value	240 V
● initial value	85 V
● full-scale value	264 V
supply voltage at DC	120 ... 240 V
input voltage at DC	99 ... 275 V
supply voltage	
● at 50 Hz	240 V
● at 60 Hz	120 V
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
wide range input	Yes
overvoltage overload capability	300 V AC for 30 s
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 = 120/240 V
input current	
● at rated input voltage 120 V	1.9 A
● at rated input voltage 240 V	1.1 A
input current	
● at rated input voltage 120 V AC	1.8 A
● at rated input voltage 120 V DC	1.1 A
● at rated input voltage 240 V AC	1 A
● at rated input voltage 240 V DC	0.6 A
current limitation of inrush current at 25 °C maximum	45 A

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I2t value maximum	1.8 A²·s
fuse protection type	internal
fuse protection type in the feeder	recommended miniature circuit breaker: 16 A characteristic B/C for UL489-listed/Cat. Div. Q
output	
voltage curve at output	Controlled, isolated DC voltage
product function output voltage controlled	Yes
product function output voltage stabilized	Yes
number of outputs	1
output voltage at DC rated value	24 V
output voltage	
● at output 1 at DC rated value	24 V
output voltage	
● at output 1 at DC	24 V
output voltage adjustable	No
relative overall tolerance of the voltage	1.5 %
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
display version for normal operation	Green LED for 24 V OK
behavior of the output voltage when switching on	Overshoot of Vout < 1 %
response delay maximum	2 s
voltage increase time of the output voltage	
● typical	220 ms
output current	
● rated value	5 A
● rated range	0 ... 5 A; 6 A up to +45°C; +60 ... +70 °C: Derating 3%/K
supplied active power typical	120 W
short-term overload current	
● on short-circuiting during the start-up typical	6 A
● at short-circuit during operation typical	6 A
bridging of equipment	Yes
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 current typical	15 W
● during no-load operation maximum	3 W
closed-loop control	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	1.5 %
setting time	
● load step 10 to 90% typical	1 ms
● load step 90 to 10% typical	1 ms
● maximum	1 ms
protection and monitoring	
design of the overvoltage protection	< 33 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
response value current limitation	5.5 A
interfaces	
product function communication function	Yes
design of the interface	unidirectional, can only send data to the higher-level control and analysis

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	system
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)
operating resource protection class	Class I
leakage current	
● maximum	3.5 mA
protection class IP	IP20
EMC	
standard	
● for emitted interference	EN 55032
● for mains harmonics limitation	EN 61000-3-2
● for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
● CE marking	Yes
● UL approval	Yes; cULus-listed (UL 61010, CSA C22.2 No. 107.1), File E143289
● UKCA marking	Yes
● EAC approval	Yes
● Regulatory Compliance Mark (RCM)	Yes
type of certification	
● CB-certificate	Yes
standards, specifications, approvals hazardous environments	
certificate of suitability	
● IECEx	No
● ULhazloc approval	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
● Det Norske Veritas (DNV)	Yes
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	419.2 kg
● during manufacturing	8.5 kg
● during operation	410.3 kg
● after end of life	0.31 kg
Siemens eco profile (SEP)	Siemens EcoTech
ambient conditions	
ambient temperature	
● during operation	-25 ... +70 °C; with natural convection
● in horizontal mounting position during operation	-25 ... +70 °C
● in vertical mounting position during operation	-25 ... +40 °C
● 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	
type of electrical connection	push-in terminal block can be removed
● at input	L, N, PE: 1 push-in terminal can be removed as terminal block for 0.5 ... 2.5 mm²
● at output	L+, M: 2 push-in terminals can be removed as terminal block for 0.5 ... 2.5 mm²
removable terminal at input	Yes
removable terminal at output	Yes
design of the interface for communication	13, 14 (contacts): 1 push-in terminal can be removed as terminal block for 0.2 ... 1.5 mm²
mechanical data	
width × height × depth of the enclosure	70 × 125 × 100 mm
installation width × mounting height	70 mm × 175 mm
required spacing	

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● top	25 mm
● bottom	25 mm
● left	0 mm
● right	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15, wall mounting
● DIN-rail mounting	Yes
● S7 rail mounting	No
● wall mounting	Yes
housing can be lined up	Yes
net weight	0.45 kg

further information internet links

internet link	
● to website: Industry Mall	https://mall.industry.siemens.com
● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to web page: power supplies	https://siemens.com/sitop
● to website: CAx-Download-Manager	https://siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com
identification link	Yes; acc. to IEC 61406-1:2022

additional information

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

security information

security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Classifications

	Version	Classification
eClass	16	27-04-07-01
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	10	EC002540
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540

Approvals Certificates

Environmental Product Declaration	
● global warming potential [CO2 eq] / during manufacturing	8.5 kg
● global warming potential [CO2 eq] / during operation	410.3 kg
● global warming potential [CO2 eq] / after end of life	0.31 kg
● global warming potential [CO2 eq] / total	419.2 kg

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Environment	General Product Approval
	Manufacturer Declaration

General Product Approval	Maritime application
China RoHS	

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