SIEMENS

Data sheet

6EP1334-3BA10



SITOP PSU200M/1-2AC/24VDC/10A

SITOP PSU200M 10 A stabilized power supply input: 120/230-500 V AC output: 24 V DC/10 A

input	
type of the power supply network	1-phase and 2-phase AC
supply voltage at AC	Set by means of selector switch on the device
supply voltage 1 at AC	120 230 V
supply voltage 2 at AC	230 500 V
input voltage 1 at AC	85 264 V
input voltage 2 at AC	176 550 V
wide range input	Yes
overvoltage overload capability	1300 Vpeak, 1.3 ms
buffering time for rated value of the output current in the event of power failure minimum	25 ms
operating condition of the mains buffering	at Vin = 120/230 V, typ. 150 ms at Vin = 400 V
line frequency	50/60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 120 V 	4.4 A
 at rated input voltage 230 V 	2.4 A
 at rated input voltage 500 V 	1.1 A
current limitation of inrush current at 25 °C maximum	35 A
I2t value maximum	4 A ² ·s
fuse protection type	T 6.3 A (not accessible)
fuse protection type in the feeder	Recommended miniature circuit breaker at 1-phase operation: from 6 A (10 A) characteristic C (B); required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at 230 V; 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) at 400/500 V
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	24 28.8 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 	0.1 %
residual ripple	
• maximum	50 mV
	55 m
voltage peak	

display version for normal operation	Green LED for 24 V OK
type of signal at output	relay contact (normally open, contact rating (SELV (ES1) must be observed): 30 V DC/0.1 A
behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %
response delay maximum	1 s
voltage increase time of the output voltage	
• typical	50 ms
output current	
rated value	10 A
rated range	0 10 A; +60 +70 °C: Derating 2%/K (at 120 V, 230 V) or 3.5%/K (at 400 V)
supplied active power typical	240 W
short-term overload current	
 at short-circuit during operation typical 	30 A
duration of overloading capability for excess current	
 at short-circuit during operation 	25 ms
constant overload current	
 on short-circuiting during the start-up typical 	12 A
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing	2
the power	2
efficiency	
efficiency in percent	91 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	24 W
 during no-load operation maximum 	6 W
closed-loop control	
relative control precision of the output voltage with rapid	0.1 %
fluctuation of the input voltage by +/- 15% typical	0.1 /0
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	3 %
setting time	
 load step 50 to 100% typical 	2 ms
	2 ms
load step 100 to 50% typical	2 115
setting time	5 m
• maximum	5 ms
protection and monitoring	
design of the overvoltage protection	< 35 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 12 A or latching shutdown
typical	12 A
enduring short circuit current RMS value	
• typical	12 A
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"
safety	
galvanic isolation between input and output	Yes
dalvanic isolation	
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	
operating resource protection class leakage current	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I
operating resource protection class leakage current • maximum	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
operating resource protection class leakage current • maximum • typical	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.32 mA
operating resource protection class leakage current • maximum • typical protection class IP	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
operating resource protection class leakage current • maximum • typical	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.32 mA
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operating resource protection class leakage current • maximum • typical protection class IP EMC	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.32 mA
operating resource protection class leakage current • maximum • typical protection class IP EMC standard	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.32 mA IP20
operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.32 mA IP20 EN 55022 Class B
operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.32 mA IP20 EN 55022 Class B EN 61000-3-2
operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.32 mA IP20 EN 55022 Class B EN 61000-3-2
operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.32 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2
operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.32 mA IP20 EN 55022 Class B EN 61000-3-2

CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus
	(CSA C22.2 No. 60950-1, UL 60950-1)
UKCA marking	Yes
 EAC approval 	Yes
 Regulatory Compliance Mark (RCM) 	Yes
NEC Class 2	No
• SEMI F47	Yes
type of certification	
CB-certificate	Yes
MTBF at 40 °C	1 055 408 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
IECEX	No
• ATEX	No
ULhazloc approval	No
• cCSAus, Class 1, Division 2	No
FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	No
Det Norske Veritas (DNV)	Yes
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product De	claration
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
• total	763.9 kg
	-
during manufacturing	12.6 kg
during operation	751 kg
after end of life	0.18 kg
ambient conditions	
ambient temperature	
ambient temperature • during operation	-25 +70; With natural convection; startup tested starting from -40 °C nominal
during operation	voltage
during operationduring transport	voltage -40 +85
 during operation during transport during storage 	voltage -40 +85 -40 +85
during operation during transport during storage environmental category according to IEC 60721	voltage -40 +85
 during operation during transport during storage 	voltage -40 +85 -40 +85
during operation during transport during storage environmental category according to IEC 60721	voltage -40 +85 -40 +85
during operation during transport during storage environmental category according to IEC 60721 connection method	voltage -40 +85 -40 +85 Climate class 3K3, 5 95% no condensation
during operation during transport during storage environmental category according to IEC 60721 connection method type of electrical connection	voltage -40 +85 -40 +85 Climate class 3K3, 5 95% no condensation screw terminal
• during operation • during transport • during storage environmental category according to IEC 60721 connection method type of electrical connection • at input	voltage -40 +85 -40 +85 Climate class 3K3, 5 95% no condensation screw terminal L, N, PE: 1 screw terminal each for 0.2 2.5 mm ² single-core/finely stranded
• during operation • during transport • during storage environmental category according to IEC 60721 connection method type of electrical connection • at input • at output	voltage -40 +85 -40 +85 Climate class 3K3, 5 95% no condensation screw terminal L, N, PE: 1 screw terminal each for 0.2 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm ²
during operation during transport during storage environmental category according to IEC 60721 connection method type of electrical connection at input at output for auxiliary contacts mechanical data	voltage -40 +85 -40 +85 Climate class 3K3, 5 95% no condensation screw terminal L, N, PE: 1 screw terminal each for 0.2 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm ²
 during operation during transport during storage environmental category according to IEC 60721 connection method type of electrical connection at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure 	voltage -40 +85 -40 +85 Climate class 3K3, 5 95% no condensation screw terminal L, N, PE: 1 screw terminal each for 0.2 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm ² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ² 70 × 125 × 121 mm
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 during operation during transport during storage environmental category according to IEC 60721 connection method type of electrical connection at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing 	voltage -40 +85 -40 +85 Climate class 3K3, 5 95% no condensation screw terminal L, N, PE: 1 screw terminal each for 0.2 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm ² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ² 70 × 125 × 121 mm 70 mm × 225 mm
 during operation during transport during storage environmental category according to IEC 60721 connection method type of electrical connection at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top 	<pre>voltage -40 +85 -40 +85 Climate class 3K3, 5 95% no condensation screw terminal L, N, PE: 1 screw terminal each for 0.2 2.5 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm² 70 × 125 × 121 mm 70 mm × 225 mm 50 mm</pre>
 during operation during transport during storage environmental category according to IEC 60721 connection method type of electrical connection at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom 	voltage -40 +85 -40 +85 Climate class $3K3$, 5 95% no condensation screw terminal L, N, PE: 1 screw terminal each for 0.2 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm ² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ² 70 × 125 × 121 mm 70 mm × 225 mm 50 mm 50 mm
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 during operation during transport during storage environmental category according to IEC 60721 connection method type of electrical connection at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right 	voltage -40 +85 -40 +85 Climate class 3K3, 5 95% no condensation screw terminal L, N, PE: 1 screw terminal each for 0.2 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm ² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ² 70 × 125 × 121 mm 70 mm × 225 mm 50 mm 0 mm 0 mm
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 during operation during transport during storage environmental category according to IEC 60721 connection method type of electrical connection at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method DIN-rail mounting S7 rail mounting wall mounting housing can be lined up net weight 	<pre>voltage -40 +85 -40 +85 Climate class 3K3, 5 95% no condensation</pre> screw terminal L, N, PE: 1 screw terminal each for 0.2 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.2 2.5 mm ² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ² 70 × 125 × 121 mm 70 mm × 225 mm 50 mm 50 mm 0 mm 0 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No No Yes 0.8 kg

 to website: Industry Mall 	https://mall.industry.siemens.co	https://mall.industry.siemens.com		
 to web page: selection aid TIA Selection Tool 	https://www.siemens.com/tstclc	https://www.siemens.com/tstcloud		
 to web page: power supplies 	https://siemens.com/sitop	https://siemens.com/sitop		
 to website: CAx-Download-Manager 	https://siemens.com/cax	https://siemens.com/cax		
 to website: Industry Online Support 	https://support.industry.siemen	https://support.industry.siemens.com		
additional information				
other information	Specifications at rated input vol otherwise specified)	tage and ambient temper	ature +25 °C (unless	
security information				
security information	that support the secure operation In order to protect plants, systen threats, it is necessary to implet state-of-the-art industrial cybers solutions constitute one element for preventing unauthorized acc networks. Such systems, mach to an enterprise network or the necessary and only when appru- network segmentation) are in p cybersecurity measures that m www.siemens.com/cybersecuri undergo continuous development recommends that product update and that the latest product vers no longer supported, and failure customer's exposure to cyber to subscribe to the Siemens Indust	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	14	27-04-07-01	

	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

