SIEMENS

Data sheet

6EP1333-3BA10



SITOP PSU200M/1-2AC/24VDC/5A

SITOP PSU200M 5 A stabilized power supply input: 120/230-500 V AC output: 24 V DC/5 A *Ex approval no longer available*

Input	
type of the power supply network	1-phase and 2-phase AC
supply voltage at AC	
• initial value	Set by means of selector switch on the device; starting from Vin > $90/180 \text{ V}$
supply voltage	
• 1 at AC	120 230 V
• 2 at AC	230 500 V
input voltage	
• 1 at AC	85 264 V
• 2 at AC	176 550 V
design of input wide range input	Yes
overvoltage overload capability	1300 Vpeak, 1.3 ms
operating condition of the mains buffering	at Vin = 120/230 V, typ. 150 ms at Vin = 400 V
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	
 1 rated value 	50 Hz
• 2 rated value	60 Hz
line frequency	47 63 Hz
input current	
 at rated input voltage 120 V 	2.2 A
 at rated input voltage 230 V 	1.2 A
 at rated input voltage 500 V 	0.61 A
current limitation of inrush current at 25 °C maximum	35 A
I2t value maximum	1.7 A ² ·s
fuse protection type	T 3.15 A (not accessible)
• 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
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
voltage peak	
• maximum	200 mV
adjustable output voltage	24 28.8 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
display version for normal operation	Green LED for 24 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
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 	5 A
 rated range 	0 5 A
supplied active power typical	120 W
short-term overload current	
 at short-circuit during operation typical 	15 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 	6 A
product feature	
 bridging of equipment 	Yes; switchable characteristic
number of parallel-switched equipment resources for	2
increasing the power	
Efficiency	
efficiency in percent	88 %
power loss [W]	
 at rated output voltage for rated value of the output 	17 W
current typical	
 during no-load operation maximum 	4 W
Closed-loop control	
Closed-loop control relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %
relative control precision of the output voltage with rapid	0.1 % 3 %
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical	3 %
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time	3 % 2 ms
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical	3 % 2 ms
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relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical setting time • maximum Protection and monitoring design of the overvoltage protection response value current limitation typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value	3 % 2 ms 2 ms 5 ms 5 ms < 35 V 6 A Yes Alternatively, constant current characteristic approx. 5.5 A or latching shutdown
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical setting time • maximum Protection and monitoring design of the overvoltage protection response value current limitation typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical	3 % 2 ms 2 ms 5 ms 5 ms < 35 V 6 A Yes Alternatively, constant current characteristic approx. 5.5 A or latching shutdown 6 A
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relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical setting time • maximum Protection and monitoring design of the overvoltage protection response value current limitation typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class	3 % 2 ms 2 ms 5 ms 5 ms 35 V 6 A Yes Alternatively, constant current characteristic approx. 5.5 A or latching shutdown 6 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical setting time • maximum Protection and monitoring design of the overvoltage protection response value current limitation typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	3 % 2 ms 2 ms 5 ms 5 ms 35 V 6 A Yes Alternatively, constant current characteristic approx. 5.5 A or latching shutdown 6 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
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relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical setting time • maximum Protection and monitoring design of the overvoltage protection response value current limitation typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	3 % 2 ms 2 ms 5 ms 5 ms < 35 V 6 A Yes Alternatively, constant current characteristic approx. 5.5 A or latching shutdown 6 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical setting time • maximum Protection and monitoring design of the overvoltage protection response value current limitation typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP	3 % 2 ms 2 ms 5 ms < 35 V 6 A Yes Alternatively, constant current characteristic approx. 5.5 A or latching shutdown 6 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.25 mA
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical setting time • maximum Protection and monitoring design of the overvoltage protection response value current limitation typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals	3 % 2 ms 2 ms 5 ms < 35 V 6 A Yes Alternatively, constant current characteristic approx. 5.5 A or latching shutdown 6 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.25 mA
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relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of resistive load 50/100/50 % typical setting time • load step 50 to 100% typical • load step 100 to 50% typical setting time • maximum Protection and monitoring design of the overvoltage protection response value current limitation typical property of the output short-circuit proof design of short-circuit protection enduring short circuit current RMS value • typical display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP Approvals certificate of suitability • CE marking	3 % 2 ms 2 ms 5 ms 3 5 V 6 A Yes Alternatively, constant current characteristic approx. 5.5 A or latching shutdown 6 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.25 mA IP20 Yes
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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)
 cCSAus, Class 1, Division 2 	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
ULhazloc approval	No
• FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	
 EAC approval 	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	No
DNV GL	Yes
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
 for emitted interference 	EN 55022 Class B
 for mains harmonics limitation 	EN 61000-3-2
 for interference immunity 	EN 61000-6-2
environmental conditions	
ampient temperature	
ambient temperature	-25 +70 °C: With natural convection: startup tested starting from -40
during operation	-25 +70 °C; With natural convection; startup tested starting from -40 °C nominal voltage
 during operation 	°C nominal voltage
during operationduring transport	°C nominal voltage -40 +85 °C
 during operation during transport during storage 	°C nominal voltage -40 +85 °C -40 +85 °C
 during operation during transport during storage environmental category according to IEC 60721 	°C nominal voltage -40 +85 °C
 during operation during transport during storage 	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation
 during operation during transport during storage environmental category according to IEC 60721 	°C nominal voltage -40 +85 °C -40 +85 °C
during operation during transport during storage environmental category according to IEC 60721 Mechanics	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals L, N, PE: 1 screw terminal each for 0.2 2.5 mm ² single-core/finely
during operation during transport during storage environmental category according to IEC 60721 Mechanics type of electrical connection	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals
during operation during transport during storage environmental category according to IEC 60721 Mechanics type of electrical connection	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 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 Mechanics type of electrical connection at input 	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 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 Mechanics type of electrical connection at input at output 	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 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 Mechanics type of electrical connection at input at output for auxiliary contacts 	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 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
 during operation during transport during storage environmental category according to IEC 60721 Mechanics type of electrical connection at input at output for auxiliary contacts width of the enclosure height of the enclosure 	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 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 mm
 during operation during transport during storage environmental category according to IEC 60721 Mechanics type of electrical connection at input at output for auxiliary contacts width of the enclosure height of the enclosure depth of the enclosure 	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 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 mm 125 mm
 during operation during transport during storage environmental category according to IEC 60721 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 	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 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 mm 125 mm 121 mm
 during operation during transport during storage environmental category according to IEC 60721 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 	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 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 mm 125 mm 121 mm 50 mm
 during operation during transport during storage environmental category according to IEC 60721 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 	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 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 mm 125 mm 121 mm 50 mm
 during operation during transport during storage environmental category according to IEC 60721 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 	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 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 mm 125 mm 121 mm 50 mm 0 mm
 during operation during transport during storage environmental category according to IEC 60721 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 	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 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 mm 125 mm 121 mm 50 mm 0 mm 0 mm
 during operation during transport during storage environmental category according to IEC 60721 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 	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 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 mm 125 mm 121 mm 50 mm 0 mm 0 mm 0 mm
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 during operation during transport during storage environmental category according to IEC 60721 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 	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 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 mm 125 mm 121 mm 50 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 screw terminal each for 0.15 35x7.5/15
 during operation during transport during storage environmental category according to IEC 60721 Mechanics type of electrical connection at input 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 electrical accessories 	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 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 mm 125 mm 121 mm 50 mm 0 mm 0 mm 0 mm 0 mm 0 mm 0 screw terminal EN 60715 35x7.5/15 Buffer module
 during operation during transport during storage environmental category according to IEC 60721 Mechanics type of electrical connection at input 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 electrical accessories MTBF at 40 °C 	°C nominal voltage -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation screw-type terminals 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 mm 125 mm 121 mm 50 mm 0 mm 0 mm 0 mm 0.6 kg Yes Snaps onto DIN rail EN 60715 35x7.5/15 Buffer module 1 123 973 h