SIEMENS

Data sheet

6EP1334-2AA01-0AB0



SITOP SMART/1AC/24VDC/10A/wall mounting

SITOP smart 240 W Stabilized power supply input: 120/230 V AC, output: DC 24 V/10 A Option for for wall mounting

type of the power supply network1-phase ACsupply voltage at ACSet by means of selector switch on the devicesupply voltage at ACACinput voltage 1 at AC85 132 Vinput voltage 2 at AC170 284 Vwide range inputNoovervoltage overload capability2.3 x Vin rated, 1.3 msbuffering time for rated value of the output current in the event of power failure minimum20 msopperating condition of the mains bufferingat Vin = 93/187 Vline frequency50/60 Hzline frequency47 63 Hzline frequency50/60 Hzline frequency47 63 Hzline trade input voltage 120 V4.1 A• at rated input voltage 230 V2.4 Acurrent limitation of invush current at 25 °C maximum3 msIzt value maximum3.3 A*sfuse protection type in the feederRecommended miniature circuit breaker: from 10 A characteristic Coutput voltage at DC rated value24 Voutput voltage at DC rated value25 %• on slow fluct	input			
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• at output 1 at DC rated value24 Voutput voltage adjustableYes; via potentiometeradjustable output voltage22.8 28 Vrelative overall tolerance of the voltage3 %relative control precision of the output voltage0.1 %• on slow fluctuation of input voltage0.1 %• on slow fluctuation of ohm loading0.5 %residual ripple50 mV• typical50 mVvoltage peak240 mV• typical150 mV• typical150 mV	output voltage at DC rated value	24 V		
output voltage adjustableYes; via potentiometeradjustable output voltage22.8 28 Vrelative overall tolerance of the voltage3 %relative control precision of the output voltage0.1 %• on slow fluctuation of input voltage0.1 %• on slow fluctuation of ohm loading0.5 %residual ripple150 mV• typical50 mVvoltage peak240 mV• typical150 mV	output voltage			
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residual ripple • maximum • typical voltage peak • maximum 240 mV • typical 150 mV		0.5 %		
• maximum 150 mV • typical 50 mV voltage peak 240 mV • maximum 240 mV • typical 150 mV				
voltage peak 240 mV • maximum 240 mV • typical 150 mV		150 mV		
voltage peak 240 mV • maximum 240 mV • typical 150 mV				
• maximum 240 mV • typical 150 mV				
		240 mV		
	• typical	150 mV		
	display version for normal operation	Green LED for 24 V OK		

hohovior of the output voltage when switching on	Overshoot of Vout approx. 4 %
behavior of the output voltage when switching on	0.1 s
voltage increase time of the output voltage	0.13
	50 ms
• typical	50 ms
output current	10 A
rated value	
rated range	0 12 A; 12 A up to +45 °C
supplied active power typical	288 W
short-term overload current	
 on short-circuiting during the start-up typical 	30 A
 at short-circuit during operation typical 	33 A
duration of overloading capability for excess current	
 on short-circuiting during the start-up 	100 ms
at short-circuit during operation	200 ms
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	90 %
power loss [W]	
at rated output voltage for rated value of the output current typical	27 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	1 %
setting time	
 load step 50 to 100% typical 	0.2 ms
 load step 100 to 50% typical 	0.2 ms
protection and monitoring	
design of the overvoltage protection	< 33 V
property of the output short-circuit proof	Yes
property of the output short-circuit proof	Yes
property of the output short-circuit proof design of short-circuit protection	Yes Constant current characteristic
property of the output short-circuit proof design of short-circuit protection response value current limitation	Yes Constant current characteristic
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value	Yes Constant current characteristic 12.5 13.5 A
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical	Yes Constant current characteristic 12.5 13.5 A
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety	Yes Constant current characteristic 12.5 13.5 A 16 A
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety galvanic isolation between input and output	Yes Constant current characteristic 12.5 13.5 A 16 A Yes
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B -
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B -
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B -
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical 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 EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B - EN 61000-6-2
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical 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 EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B - EN 61000-6-2 Yes
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical 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 EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UL approval	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B - EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety galvanic isolation between input and output 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 EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UL approval • CSA approval	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B - EN 61000-6-2 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical 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 EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UL approval • CSA approval • NEC Class 2	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B - EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; ves Yes
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical safety galvanic isolation between input and output galvanic isolation 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 • CE marking • UL approval • CSA approval • EAC approval	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B - EN 61000-6-2 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; ves; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes Yes Yes
property of the output short-circuit proof design of short-circuit protection response value current limitation enduring short circuit current RMS value • typical 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 EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking • UL approval • CSA approval • NEC Class 2	Yes Constant current characteristic 12.5 13.5 A 16 A Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B - EN 61000-6-2 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; ves; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes Yes Yes

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	165		
American Bureau of Shipping Europe Ltd. (ABS)	No		
	No		
French marine classification society (BV)	Yes		
Det Norske Veritas (DNV)			
Lloyds Register of Shipping (LRS)	No		
ambient conditions			
ambient temperature			
during operation	0 60; with natural convection		
during transport	-40 +85		
• during storage	-40 +85		
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation		
connection method			
type of electrical connection	screw terminal		
● at input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded		
● at output	L+, M: 2 screw terminals each for 0.5 2.5 mm ²		
 for auxiliary contacts 	-		
mechanical data			
width × height × depth of the enclosure	70 × 125 × 125 mm		
installation width × mounting height	70 mm × 225 mm		
required spacing			
• top	50 mm		
• bottom	50 mm		
• left	0 mm		
● right	0 mm		
fastening method	Wall mounting		
 standard rail mounting 	No		
 S7 rail mounting 	No		
 wall mounting 	Yes		
housing can be lined up	Yes		
net weight	0.85 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: selection and TA Selection roof to web page: power supplies 	https://www.sieniens.com/sicoud		
 to web page: power supplies to website: CAx-Download-Manager 	https://siemens.com/cax		
to website: CAX-Download-Manager to website: Industry Online Support	https://support.industry.siemens.com		
additional information	napouroupportantuoti y atomono.com		
	Specifications at roted input voltage and embiant temperature 105 °C / voltage		
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	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 Ap	proval					
СВ	Manufacturer Declara- tion	Declaration of Con- formity	UK CA	CE EG-Konf.		
Marine / Shipping						
last modified:	11/25/2024 🖸					