SIEMENS

Data sheet 6EP1333-2BA01

SITOP SMART/1AC/24VDC/5A/PFC

******** spare part ********* SITOP smart 120 W stabilized power supply input: 120/230 V AC output: 24 V DC/5 A version with PFC

input			
type of the power supply network	1-phase AC		
supply voltage at AC	Set by means of selector switch on the device		
supply voltage	120 V/230 V		
input voltage 1 at AC	85 132 V		
input voltage 2 at AC	170 264 V		
wide range input	No		
overvoltage overload capability	2.3 × Vin rated, 1.3 ms		
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	50/60 Hz		
line frequency	47 63 Hz		
input current			
at rated input voltage 120 V	2.1 A		
at rated input voltage 230 V	1.15 A		
current limitation of inrush current at 25 °C maximum	32 A		
duration of inrush current limiting at 25 °C			
• typical	3 ms		
I2t value maximum	0.8 A ² ·s		
fuse protection type	T 3,15 A/250 V (not accessible)		
fuse protection type in the feeder	Recommended miniature circuit breaker: from 6 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		
output voltage adjustable	Yes; via potentiometer		
adjustable output voltage	22.8 28 V		
relative control precision of the output voltage			
on slow fluctuation of input voltage	0.1 %		
on slow fluctuation of ohm loading	0.5 %		
residual ripple			
• maximum	150 mV		
• typical	50 mV		
voltage peak			
maximum	240 mV		
• typical	150 mV		
display version for normal operation	Green LED for 24 V OK		
behavior of the output voltage when switching on	Overshoot of Vout approx. 4 %		
response delay maximum	0.1 s		
voltage increase time of the output voltage	0.10		
• typical	50 ms		
output current	00 1110		
• rated value	5 A		
rated range Supplied active power typical	0 6 A; 6 A up to +45 °C 144 W		
supplied active power typical	VV VV		
short-term overload current	47. A		
on short-circuiting during the start-up typical	17 A		
at short-circuit during operation typical	17 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	87 %
power loss [W]	
 at rated output voltage for rated value of the output current typical 	17 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
design of short-circuit protection	Constant current characteristic
response value current limitation	6.4 6.6 A
enduring short circuit current RMS value	
• typical	10 A
safety	
	Yes
galvanic isolation between input and output	
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	0.5 4
• maximum	3.5 mA
• typical	0.4 mA
protection class IP	IP20
standard	511 5500 CL D
for emitted interference	EN 55022 Class B
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 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1, UL 1604)
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, UL 1604)
EAC approval	Yes
NEC Class 2	No
type of certification	
CB-certificate	Yes
MTBF at 40 °C	1 694 714 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	
Marine classification association • American Rureau of Shipping Furone Ltd. (ARS)	Vac
Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV)	Yes No

a Dat Naraka Varitas (DNV)	Yes					
Det Norske Veritas (DNV)Lloyds Register of Shipping (LRS)	No					
ambient conditions	140					
ambient temperature • during operation	0 60 °C; with natural convect	ion				
during operation 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	Cilinate diass dive, o 50 / i lie	Condensation				
type of electrical connection	screw terminal					
• at input		L, N, PE: 1 screw terminal each for 0.5 2.5 mm² 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	50 × 125					
installation width × mounting height	50 mm					
required spacing						
• top	50 mm					
• bottom	50 mm					
• left	0 mm					
• right	0 mm					
fastening method		Snaps onto DIN rail EN 60715 35x7.5/15				
standard rail mounting	Yes	·				
• S7 rail mounting	No	No				
wall mounting	No	No				
housing can be lined up	Yes	Yes				
net weight	0.5 kg	0.5 kg				
further information internet links						
internet link						
• to website: Industry Mall	https://mall.industry.siemens.co	https://mall.industry.siemens.com				
 to web page: selection aid TIA Selection Tool 	https://siemens.com/tst					
to website: Industrial communication	http://www.siemens.com/simati	http://www.siemens.com/simatic-net				
• to website: CAx-Download-Manager	http://www.siemens.com/cax	http://www.siemens.com/cax				
• to website: Industry Online Support	https://support.industry.siemens	s.com				
additional information						
other information		Specifications at rated input voltage and ambient temperature +25 °C (unless				
	otherwise specified)					
security information						
security information	that support the secure operation order to protect plants, syste threats, it is necessary to imple state-of-the-art industrial cybers solutions constitute one element for preventing unauthorized accentworks. Such systems, mach to an enterprise network or the necessary and only when approprietwork segmentation) are in procybersecurity measures that may www.siemens.com/cybersecuri undergo continuous development recommends that product updated and that the latest product vers no longer supported, and failure customer's exposure to cyber the subscribe to the Siemens Industrial	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			
	COIdos	U	21-04-30-02			

,		
2		
27-04-90-02		
4130		
4		

Approvals Certificates

General Product Approval



Manufacturer Declaration

Declaration of Conformity







Marine / Shipping





last modified:

5/22/2024

