SIEMENS

Data sheet 6EP1436-3BA00



SITOP modular/3AC/24VDC/20A

SITOP modular 20 A stabilized power supply input: 400-500 V 3 AC output: 24 V DC/20 A

input		
type of the power supply network	3-phase AC	
supply voltage at AC		
minimum rated value	400 V	
 maximum rated value 	500 V	
• initial value	320 V	
• full-scale value	550 V	
supply voltage at AC	Starting from Vin > 340 V	
wide range input	Yes	
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	6 ms	
operating condition of the mains buffering	at Vin = 400 V	
line frequency	50/60 Hz	
line frequency	47 63 Hz	
input current		
 at rated input voltage 400 V 	1.1 A	
 at rated input voltage 500 V 	0.9 A	
current limitation of inrush current at 25 °C maximum	35 A	
I2t value maximum	0.7 A ² ·s	
fuse protection type	none	
fuse protection type in the feeder	Required: 3-pole connected miniature circuit breaker 6 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)	
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; max. 480 W	
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	0.2 %	
residual ripple		
• maximum	100 mV	
voltage peak		
• maximum	200 mV	
display version for normal operation	Green LED for 24 V OK	
type of signal at output	via signaling module (6EP1961-3BA10)	

habaviar of the autout valtage when avitahing on	No everyheat of Vout (act start)
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum voltage increase time of the output voltage	2.5 s
	500 ms
• maximum	500 IIIS
output current	20.4
• rated value	20 A
rated range	0 20 A; +60 +70 °C: Derating 2%/K
supplied active power typical	480 W
short-term overload current	
at short-circuit during operation typical	60 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	23 A
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
efficiency	
	90 %
efficiency in percent power loss [W]	00 /0
at rated output voltage for rated value of the output	53 W
current typical	
closed-loop control	
relative control precision of the output voltage with rapid	1 %
fluctuation of the input voltage by +/- 15% typical	
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	2 %
setting time	
 load step 50 to 100% typical 	4 ms
load step 100 to 50% typical	4 ms
setting time	
maximum	10 ms
protection and monitoring	
protection and monitoring design of the overvoltage protection	< 35 V
protection and monitoring design of the overvoltage protection property of the output short-circuit proof	< 35 V Yes
protection and monitoring design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection	< 35 V Yes Alternatively, constant current characteristic approx. 23 A or latching shutdown
protection and monitoring design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical	< 35 V Yes
protection and monitoring design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value	< 35 V Yes Alternatively, constant current characteristic approx. 23 A or latching shutdown 23 A
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design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical display version for overload and short circuit safety	< 35 V Yes Alternatively, constant current characteristic approx. 23 A or latching shutdown 23 A 23 A LED yellow for "overload", LED red for "latching shutdown"
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output	< 35 V Yes Alternatively, constant current characteristic approx. 23 A or latching shutdown 23 A 23 A LED yellow for "overload", LED red for "latching shutdown" Yes
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design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection • typical enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic resource protection class	< 35 V Yes Alternatively, constant current characteristic approx. 23 A or latching shutdown 23 A 23 A LED yellow for "overload", LED red for "latching shutdown" Yes
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NEC Class 2 SEMI F47 type of certification CB-certificate No MTBF at 40 °C 711 213 h standards, specifications, approvals hazardous environments certificate of suitability IECEX ATEX Outline ATEX Ulhazloc approval CCSAus, Class 1, Division 2 FM registration shipbuilding approval Marine classification association American Bureau of Shipping Europe Ltd. (ABS) French marine classification society (BV) Det Norske Veritas (DNV) Lloyds Register of Shipping (LRS)	
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● 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	
standards, specifications, approvals marine classification shipbuilding approval Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) Yes	
shipbuilding approval Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) Yes	
Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • Det Norske Veritas (DNV) Yes	
 French marine classification society (BV) Det Norske Veritas (DNV) Yes 	
 French marine classification society (BV) Det Norske Veritas (DNV) Yes 	
Det Norske Veritas (DNV) Yes	
, , ,	
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration Yes	
global warming potential [CO2 eq]	
● total 1 690.8 kg	
• during manufacturing 31.5 kg	
• during operation 1 658.4 kg	
• after end of life 0.45 kg	
ambient conditions	
ambient temperature	
• during operation 0 70 °C; with natural convection	
• 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 screw terminal	
• at input L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core	e/finely
stranded	
• at output +, -: 2 screw terminals each for 0.33 4 mm²	
• for auxiliary contacts	
mechanical data	
width × height × depth of the enclosure 160 × 125 × 125 mm	
installation width × mounting height 160 mm × 225 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	
DIN-rail mounting Yes	
• S7 rail mounting	
• wall mounting No	
housing can be lined up Yes	
net weight 2 kg	
accessories	
electrical accessories Buffer module, signaling module	
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 website: CAx-Download-Manager https://siemens.com/cax	
• to website: Industry Online Support https://support.industry.siemens.com	

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)

	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



Manufacturer Declara-<u>tion</u>

Declaration of Conformity







General Product Approval

Maritime application

Environment

Miscellaneous









last modified:

4/4/2025