SIEMENS

Data sheet

SITOP modular/3AC/DC24V/40A/CO

SITOP modular plus 40 A Stabilized power supply input: 3 AC 400-500 V output: 24 V DC/40 A Option for with protective varnish



Figure similar

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 	2.2 A	
current limitation of inrush current at 25 °C maximum	70 A	
I2t value maximum	2.8 A²·s	
fuse protection type	none	
fuse protection type in the feeder	Required: 3-pole connected miniature circuit breaker 10 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. 960 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)	

halanda afala adam u u u u u u u u u u u	No superbook of Vank (soft ak. 1)
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	2.5 s
voltage increase time of the output voltage	
• maximum	500 ms
output current	
rated value	40 A
rated range	0 40 A; +60 +70 °C: Derating 2%/K
supplied active power typical	960 W
short-term overload current	
 at short-circuit during operation typical 	120 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	46 A
bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing	2
the power	
efficiency	
efficiency in percent	90 %
power loss [W]	
at rated output voltage for rated value of the output autrent typical.	106 W
current typical	
closed-loop control	4.0/
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	1 %
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	< 35 V
protection and monitoring design of the overvoltage protection	< 35 V Yes
protection and monitoring design of the overvoltage protection property of the output short-circuit proof	Yes
design of the overvoltage protection property of the output short-circuit proof design of short-circuit protection	Yes Alternatively, constant current characteristic approx. 46 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	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	Yes Alternatively, constant current characteristic approx. 46 A or latching shutdown 46 A 46 A LED yellow for "overload", LED red for "latching shutdown"
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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 isolation	Yes Alternatively, constant current characteristic approx. 46 A or latching shutdown 46 A 46 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
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	Yes Alternatively, constant current characteristic approx. 46 A or latching shutdown 46 A 46 A LED yellow for "overload", LED red for "latching shutdown" Yes
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 isolation operating resource protection class leakage current	Yes Alternatively, constant current characteristic approx. 46 A or latching shutdown 46 A 46 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
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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 isolation operating resource protection class leakage current • maximum protection class IP EMC standard • for emitted interference	Yes Alternatively, constant current characteristic approx. 46 A or latching shutdown 46 A 46 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 IP20 EN 55022 Class B
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NEG OL O	
• NEC Class 2	No
type of certification	
CB-certificate	No
MTBF at 40 °C	485 437 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	Na
shipbuilding approval Marine classification association	No
American Bureau of Shipping Europe Ltd. (ABS)	No
French marine classification society (BV)	No
Det Norske Veritas (DNV)	No
Lloyds Register of Shipping (LRS)	No
Lloyds Register of Snipping (LRS) standards, specifications, approvals Environmental Product De-	*
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	100
total	3 368.7 kg
during manufacturing	5 500.7 kg
during manufacturing during operation	3 316.8 kg
after end of life	0.72 kg
ambient conditions	0.12 kg
ambient temperature	
during operation	0 70 °C; with natural convection
during transport	-40 +85 °C
during storage	-40 +85 °C
	011 1 1 01/0 7 070/
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
environmental category according to IEC 60721 connection method	Climate class 3K3, 5 95% no condensation
	Climate class 3K3, 5 95% no condensation screw terminal
connection method	
type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely
type of electrical connection • at input	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.33 10 mm²
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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 Approval

Environment

Manufacturer Declaration Declaration of Conformity









last modified:

8/28/2024