SIEMENS

Data sheet 6EP1436-3BA00



SITOP modular/3AC/DC24V/20A

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

3-phase AC
400 V
500 V
320 V
550 V
Starting from Vin > 340 V
Yes
2.3 × Vin rated, 1.3 ms
6 ms
at Vin = 400 V
50/60 Hz
47 63 Hz
1.1 A
0.9 A
35 A
0.7 A ² ·s
none
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)
Controlled, isolated DC voltage
24 V
24 V
Yes; via potentiometer
24 28.8 V; max. 480 W
3 %
0.1 %
0.2 %
100 mV
200 mV
Green LED for 24 V OK

habada attha adam a	No superheat of Vent (ast at 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	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	2
the power	
efficiency	
efficiency in percent	90 %
power loss [W]	
at rated output voltage for rated value of the output autrent typical.	53 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
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	To the
protection and monitoring	< 35 V
protection and monitoring design of the overvoltage protection	
protection and monitoring design of the overvoltage protection property of the output short-circuit proof	< 35 V Yes
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 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"
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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	< 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 Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
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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	< 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 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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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 • for mains harmonics limitation • for interference immunity	< 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 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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• NEC Class 2	No
NEC Class 2 SEMI F47	Yes
type of certification	160
CB-certificate	No
MTBF at 40 °C	711 213 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	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
 French marine classification society (BV) 	No
 Det Norske Veritas (DNV) 	Yes
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product De	claration
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 mm ² single-core/finely stranded
• at output	+, -: 2 screw terminals each for 0.33 4 mm ²
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
standard rail mounting	Yes
S7 rail mounting	No
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 website: Industrial communication 	https://siemens.com/industrial-communication
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)

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



Manufacturer Declara-<u>tion</u>

Declaration of Conformity







General Product Approval

Marine / Shipping

Environment

Miscellaneous









last modified:

8/28/2024

