Data sheet

SIPLUS PS PSU100M

spare part SIPLUS PS modular 40 A based on 6EP1337-3BA00 with conformal coating, -40...+70 °C, stabilized power supply input: 120/230 V AC output: 24 V DC/40 A



Figure similar

nput			
type of the power supply network	1-phase AC		
supply voltage at AC	Set by means of wire jumper on the device; starting from Vin > 95/190 V		
supply voltage	120 V/230 V		
input voltage 1 at AC	85 132 V		
input voltage 2 at AC	176 264 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 = 230 V		
line frequency	50/60 Hz		
line frequency	47 63 Hz		
input current			
 at rated input voltage 120 V 	15 A		
• at rated input voltage 230 V	8 A		
current limitation of inrush current at 25 °C maximum	125 A		
I2t value maximum	26 A²-s		
fuse protection type	Yes		
fuse protection type in the feeder	Recommended miniature circuit breaker at 1-phase operation: 20 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2421-4BA10 (120 V) or 3RV2411-1JA10 (23 V)		
utput			
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		
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	0.1 %		
residual ripple			
• maximum	100 mV		
• typical	60 mV		
voltage peak			
• maximum	200 mV		
• typical	120 mV		

display version for normal operation	Green LED for 24 V OK	
type of signal at output	via signaling module (6EP1961-3BA10)	
behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %	
response delay maximum	0.1 s	
voltage increase time of the output voltage		
• typical	50 ms	
output current		
rated value	40 A	
rated range	0 40 A; +60 +70 °C: Derating 2.5%/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	88 %	
power loss [W]		
 at rated output voltage for rated value of the output 	131 W	
current typical		
closed-loop control		
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 	2 ms	
• load step 100 to 50% typical	2 ms	
setting time		
maximum	5 ms	
protection and monitoring		
design of the overvoltage protection	< 35 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Alternatively, constant current characteristic approx. 46 A or latching shutdown	
• typical	46 A	
enduring short circuit current RMS value		
• typical	46 A	
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"	
safety		
galvanic isolation between input and output	Yes	
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
operating resource protection class	Class I	
operating resource protection class	Class I	
operating resource protection class leakage current	Class I 3.5 mA	
operating resource protection class leakage current • maximum		
operating resource protection class leakage current • maximum • typical	3.5 mA	
operating resource protection class leakage current	3.5 mA 0.4 mA	
operating resource protection class leakage current	3.5 mA 0.4 mA	
operating resource protection class leakage current	3.5 mA 0.4 mA IP20	
operating resource protection class leakage current	3.5 mA 0.4 mA	
operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation	3.5 mA 0.4 mA IP20 EN 55022 Class B	
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operating resource protection class leakage current	3.5 mA 0.4 mA IP20 EN 55022 Class B - EN 61000-6-2	
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operating resource protection class leakage current	3.5 mA 0.4 mA IP20 EN 55022 Class B - EN 61000-6-2 Yes Yes	
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-	
-40 +70 °C; with natural convection	
-40 +85 °C	
-40 +85 °C	
6 000 m	
In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m	
100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation	
Yes; incl. diesel and oil droplets in the air	
Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request	
Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)	
Yes; Class 3S4 incl. sand, dust	
Yes; Class 6B2 mold, fungal, sponge spores (except fauna)	
Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)	
Yes; Class 6S3 incl. sand, dust	
Yes; Class 2 for high availability	
Yes; Type 1 protection	
Yes; Discoloration of the coating during service life possible	
Yes; Conformal Coating, Class A	
screw terminal	
L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded	
+, -: 2 screw terminals each for 0.5 10 mm ²	
240 × 125 × 125 mm	
240 mm × 225 mm	
50 mm	
50 mm	
0 mm	
0 mm	
Snaps onto DIN rail EN 60715 35x15	
Yes	
No No	
Yes	
2.9 kg	
2.0 Ng	
Buffer module, signaling module	
Buildi module, signaling module	
https://support.industry.siemens.com	
Https://support.inuustry.sichief15.COH	
Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)	
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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

EMV

Miscellaneous

Manufacturer Declaration







<u>KC</u>

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