SIEMENS

Data sheet



SIPLUS PSU300S 20 A

SIPLUS PS PSU300S 20 A based on 6EP1436-2BA10 with conformal coating, - 40...+70 $^{\circ}$ C, stabilized power supply input: 400-500 V 3 AC output: 24 V DC/20 A

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	340 V	
• full-scale value	550 V	
wide range input	Yes	
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 	1.2 A	
at rated input voltage 500 V	1 A	
current limitation of inrush current at 25 °C maximum	36 A	
I2t value maximum	0.9 A²-s	
fuse protection type	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-listed, DIVQ)	
fuse protection type in the feeder		
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 V; max. 480 W	
relative overall tolerance of the voltage	3 %	
relative control precision of the output voltage		
on slow fluctuation of input voltage	0.5 %	
on slow fluctuation of ohm loading	1 %	
residual ripple		
• maximum	150 mV	
voltage peak		
maximum	240 mV	
display version for normal operation	Green LED for 24 V OK	
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	
behavior of the output voltage when switching on	No overshoot of Vout (soft start)	

1.5 s
1.0 0
30 ms
500 ms
500 IIIS
20. A
20 A
0 20 A
480 W
35 A
35 A
100 ms
100 ms
Yes
2
91 %
47 W
3 %
O 70
3 %
2 ms
2 ms
10 ms
protection against overvoltage in case of internal fault Vout < 35 V
Yes
Electronic shutdown, automatic restart
25.5 A
overload capability 150 % lout rated up to 5 s/min
overload capability 100 % loat rated up to 0 0.11iiii
7 A
Yes
Safety extra-low output voltage Vout acc. to EN 60950-1 and EN 50178, transformer acc. to EN 61558-2-16
Class I
3.5 mA
1 mA
IP20
EN 55022 Class B
EN 61000-3-2
EN 61000-6-2
Yes
Yes Yes

ambient temperature		
in horizontal mounting position during operation	-40 +60 °C; with natural convection	
during transport	-40 +85 °C	
during storage	-40 +85 °C	
installation altitude at height above sea level maximum	6 000 m	
ambient condition relating to ambient temperature - air pressure	In case of operation at altitudes of 2000 - 6000 m above sea level: Output	
- installation altitude	power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m	
relative humidity with condensation according to IEC 60068-2-38 maximum	100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation	
chemical resistance to commercially available cooling lubricants	Yes; incl. diesel and oil droplets in the air	
resistance to biologically active substances conformity according to EN 60721-3-3	Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request	
resistance to chemically active substances conformity according to EN 60721-3-3	Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)	
resistance to mechanically active substances conformity according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust	
resistance to biologically active substances conformity according to EN 60721-3-6	Yes; Class 6B2 mold, fungal, sponge spores (except fauna)	
resistance to chemically active substances conformity according to EN 60721-3-6	Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3) Vec: Class 6S3 incl. sand. dust	
resistance to mechanically active substances conformity according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust	
coating for equipped printed circuit board according to EN 61086	Yes; Class 2 for high availability	
type of coating protection against pollution according to EN 60664-3	Yes; Type 1 protection	
type of test of the coating according to MIL-I-46058C	Yes; Discoloration of the coating during service life possible	
product conformity of the coating Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal Coating, Class A	
connection method		
type of electrical connection	screw terminal	
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm ² single-core/finely stranded	
• at output	+, -: 2 screw terminals each for 0.2 4 mm ²	
for auxiliary contacts	13, 14 (alarm signal): 1 screw terminal each for 0.05 2.5 mm ²	
nechanical data		
width × height × depth of the enclosure	90 × 145 × 150 mm	
installation width × mounting height	90 mm × 225 mm	
required spacing		
• top	40 mm	
• bottom	40 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	1.6 kg	
accessories		
electrical accessories	Redundancy module, buffer module, selectivity module, DC UPS	
mechanical accessories	Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20	
urther information internet links		
internet link		
• to website: Industry Mall	https://mall.industry.siemens.com	
• to website: Industry Online Support	https://support.industry.siemens.com	
additional information		
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,	

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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





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