SIEMENS

Data sheet 6AG1331-6SB00-7AY0



SIPLUS LOGO! POWER 24V 1.3A

SIPLUS LOGO! power 24 V 1.3 A based on 6EP3331-6SB00-0AY0 with conformal coating, -40…+70 °C, start up -25 °C, stabilized power supply input: 100-240 V AC output: 24 V DC/ 1.3 A

General information	
Technical Product Detail Page	https://www.siemes.plc.com/?s=6AG1331-6SB00-7AY0
manufacturer's article number of the basic version used for SIPLUS product versions	6EP3331-6SB00-0AY0
input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
● minimum rated value	100 V
● maximum rated value	240 V
● initial value	85 V
● full-scale value	264 V
input voltage at DC	110 ... 300 V
wide range input	Yes
buffering time for rated value of the output current in the event of power failure minimum	40 ms
operating condition of the mains buffering	at Vin = 187 V
line frequency	50/60 Hz
line frequency	47 ... 63 Hz
input current	
● at rated input voltage 120 V	0.7 A
● at rated input voltage 230 V	0.35 A
current limitation of inrush current at 25 °C maximum	25 A
I2t value maximum	0.8 A²·s
fuse protection type	internal
fuse protection type in the feeder	Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C
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	22.2 ... 26.4 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	200 mV

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● typical	30 mV
voltage peak	
● maximum	300 mV
● typical	50 mV
display version for normal operation	Green LED for output voltage OK
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	0.5 s
voltage increase time of the output voltage	
● typical	100 ms
output current	
● rated value	1.3 A
● rated range	0 ... 1.3 A; +55 ... +70 °C: Derating 2%/K
supplied active power typical	31.2 W
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	86 %
power loss [W]	
● at rated output voltage for rated value of the output current typical	5 W
● during no-load operation maximum	0.3 W
closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.2 %
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	1 %
setting time	
● load step 10 to 90% typical	1 ms
● load step 90 to 10% typical	1 ms
protection and monitoring	
design of the overvoltage protection	< 60 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
● typical	1.7 A
overcurrent overload capability	
● when switching on	150% Iout rated typ. 200 ms
● in normal operation	overload capability 150% Iout rated typ. 200 ms
enduring short circuit current RMS value	
● maximum	1.7 A
measuring point for output current	Yes; 50 mV =^ 1.3 A
safety	
galvanic isolation between input and output	Yes
galvanic isolation	Output voltage: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)
operating resource protection class	Class II (without protective conductor)
protection class IP	IP20
EMC	
standard	
● for emitted interference	EN 55022 Class B
● for mains harmonics limitation	not applicable
● for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
● CE marking	Yes
● UKCA marking	Yes
● Regulatory Compliance Mark (RCM)	Yes
MTBF at 40 °C	3 094 996 h
ambient conditions	
ambient temperature	

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● in horizontal mounting position during operation	-40; Startup @ -25 °C ... +70 °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 - installation altitude	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
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)
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	L, N: 1 screw terminal each for 0.5 ... 2.5 mm2 single-core/finely stranded
● at output	+, -: 2 screw terminals each for 0.5 ... 2.5 mm²
● for auxiliary contacts	-
mechanical data	
width × height × depth of the enclosure	36 × 90 × 53 mm
installation width × mounting height	36 mm × 130 mm
required spacing	
● top	20 mm
● bottom	20 mm
● left	0 mm
● right	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions
● DIN-rail mounting	Yes
● S7 rail mounting	No
● wall mounting	Yes
housing can be lined up	Yes
net weight	0.12 kg
further information internet links	
internet link	
● to website: Industry Mall	https://www.siemes.plc.com/?s=6AG1331-6SB00-7AY0
● to website: Industry Online Support	https://www.siemes.plc.com/?s=6AG1331-6SB00-7AY0
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, 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

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Classifications

	Version	Classification
eClass	16	27-04-07-01
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	10	EC002540
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval

Manufacturer Declaration

China RoHS

China RoHS

General Product Approval

EMV

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