6EP3331-6SB00-0AY0

Data sheet



LOGO!Power/1AC/24VDC/1.3A

LOGO! Power 24 V / 1.3 A stabilized power supply input: 100-240 V AC output: 24 V DC/ 1.3 A *Ex approval no longer available*

type of the power supply network 1-phase AC or DC supply voltage at AC minimum rated value 100 240 V supply voltage at AC initial value 85 264 V supply voltage at AC full-scale value 110 300 V input voltage at DC 110 300 V wide range input Yes overvoltage overload capability 300 V AC for 1 s 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 initial value 47 63 Hz line frequency (initial value) 47 63 Hz line frequency (initial value) 47 63 Hz line frequency (initial value) 47 63 Hz input current 4 at rated input voltage 120 V 0.7 A • at rated input voltage 230 V 0.35 A 12t value maximum 0.8 A² s fuse protection type in the feeder Internal vost protection type in the feeder Controlled, isolated DC voltage output voltage at DC rated value 24 V output voltage at activate voltage initial value 22 2 V	input		
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12t value maximum 0.8 A²-s internal	• at rated input voltage 230 V	0.35 A	
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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 output voltage at DC rated value • at output 1 at DC rated value output voltage adjustable • at output voltage adjustable adjustable output voltage initial value adjustable output voltage full-scale value 22.2 V adjustable output voltage full-scale value • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical voltage paak Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C Controlled, isolated DC voltage 24 V output voltage 4 at output voltage 924 V output voltage adjustable 22.2 V adjustable output voltage full-scale value 22.2 V adjustable output voltage full-scale value 26.4 V relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading 7 controlled, isolated DC voltage 24 V 0utput voltage full-scale value 26.4 V 7 controlled, isolated DC voltage 9 controlled, isolated DC volta	12t value maximum	0.8 A ² ·s	
characteristic C output voltage curve at output	fuse protection type	internal	
voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value output voltage adjustable output voltage adjustable output voltage adjustable output voltage initial value adjustable output voltage full-scale value relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical voltage paak Controlled, isolated DC voltage 24 V Controlled, isolated DC voltage 24 V Controlled, isolated DC voltage 24 V Output voltage 24 V 25 V 26.4 V 76.4 V 76.5	fuse protection type in the feeder		
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output voltage • at output 1 at DC rated value 24 V output voltage adjustable Adjustable output voltage initial value 22.2 V adjustable output voltage full-scale value relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum • typical voltage peak	voltage curve at output	Controlled, isolated DC voltage	
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output voltage adjustable adjustable output voltage initial value 22.2 V adjustable output voltage full-scale value 26.4 V relative overall tolerance of the voltage **relative control precision of the output voltage **on slow fluctuation of input voltage **on slow fluctuation of ohm loading residual ripple **maximum **aximum **aximu	output voltage		
adjustable output voltage initial value 22.2 V adjustable output voltage full-scale value 26.4 V relative overall tolerance of the voltage 3 % relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading 0.1 % residual ripple • maximum • typical voltage peak	at output 1 at DC rated value	24 V	
adjustable output voltage full-scale value relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum typical voltage peak 26.4 V 26.4 V 26.4 V 26.4 V 26.4 V 26.4 V 200 mV 30 mV	output voltage adjustable	Yes; via potentiometer	
relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum typical voltage peak	adjustable output voltage initial value	22.2 V	
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum typical voltage peak 0.1 % 0.1 % 200 mV 30 mV	adjustable output voltage full-scale value	26.4 V	
on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum typical voltage peak on slow fluctuation of ohm loading 0.1 % 200 mV 30 mV	relative overall tolerance of the voltage	3 %	
on slow fluctuation of ohm loading residual ripple maximum typical voltage peak on slow fluctuation of ohm loading 0.1 % 200 mV 30 mV	relative control precision of the output voltage		
residual ripple • maximum • typical voltage peak 200 mV 30 mV	 on slow fluctuation of input voltage 	0.1 %	
maximum typical voltage peak 200 mV 30 mV voltage peak	on slow fluctuation of ohm loading	0.1 %	
• typical 30 mV voltage peak	residual ripple		
voltage peak	• maximum	200 mV	
	• typical	30 mV	
• maximum 300 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	2	
the power		
efficiency in percent	86 %	
power loss [W]		
 at rated output voltage for rated value of the output current typical 	5.1 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	Yes, according to EN 60950-1	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Constant current characteristic	
response value current limitation typical	1.7 A	
overcurrent overload capability		
when switching on	150% lout rated typ. 200 ms	
in normal operation	overload capability 150% lout 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	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
operating resource protection class	Class II (without protective conductor)	
protection class IP	IP20	
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	
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus- Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)	
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cURus-Recognized (UL 60950, CSA C22.2 No. 60950), File E151273, NEC class 2 (acc. to UL 1310)	
EAC approval	Yes	
• NEC Class 2	Yes; according to UL1310, File E151273	
• SEMI F47	Yes	
type of certification		
• BIS	Yes; R-41188271	
CB-certificate	Yes	
MTBF at 40 °C	3 094 996 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) 	Yes	
 Det Norske Veritas (DNV) 	Yes	
 Lloyds Register of Shipping (LRS) 	Yes	
standards, specifications, approvals Environmental Product Dec	claration	
Environmental Product Declaration	Yes	
Global Warming Potential [CO2 eq]		
• total	162 kg	
during manufacturing	2.4 kg	
during operation	159.6 kg	
after end of life	0.08 kg	
ambient conditions		
ambient temperature		
 during operation 	-25 +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-type terminals	
• at input	L, N: 1 screw terminal each for 0.5 2.5 mm2 single-core/finely stranded	
• at output	+, -: 1 screw terminal 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 × 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	
standard rail mounting	Yes	
S7 rail mounting	No	
wall mounting	Yes	
housing can be lined up	Yes	
net weight	0.12 kg	
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 security 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 security 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 security measures that may be implemented, please visit https://www.siemens.com/industrialsecurity. Siemens' products and solutions	

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 Security RSS Feed under https://www.siemens.com/cert. (V4.6)

Classifications

	Version	Classification
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

For use in hazardous locations









<u>FM</u>

CCC-Ex

Marine / Shipping











Environment

last modified:

3/12/2024

