## SIEMENS

## Data sheet

## 6EP3320-6SB00-0AY0



LOGO!Power/1AC/12VDC/0.9A

LOGO!Power 12 V / 0.9 A stabilized power supply input: 100-240 V AC output: 12 V DC/ 0.9 A \*Ex approval no longer available\*

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
minimum rated value	100 V
<ul> <li>maximum rated value</li> </ul>	240 V
<ul> <li>initial value</li> </ul>	85 V
• full-scale value	264 V
input voltage	
● at DC	110 300 V
design of input wide range input	Yes
overvoltage overload capability	300 V AC for 1 s
operating condition of the mains buffering	at Vin = 187 V
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	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
line frequency	47 63 Hz
input current	
<ul> <li>at rated input voltage 120 V</li> </ul>	0.3 A
• at rated input voltage 230 V	0.2 A
current limitation of inrush current at 25 °C maximum	20 A
I2t value maximum	0.8 A <sup>2</sup> ·s
fuse protection type	internal
• 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	12 V
output voltage	
• at output 1 at DC rated value	12 V
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.1 %
<ul> <li>on slow fluctuation of ohm loading</li> </ul>	0.1 %
residual ripple	
• maximum	200 mV
• typical	30 mV
voltage peak	
• maximum	300 mV

- turical	50 m)/
typical     product function output voltage adjustable	50 mV
product function output voltage adjustable	No
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) 0.5 s
response delay maximum voltage increase time of the output voltage	0.5 \$
	100 ms
• typical output current	100 ms
rated value	0.9 A
rated value	0 0.9 A; +55 +70 °C: Derating 2%/K
supplied active power typical	10.8 W
product feature	10.0 11
bridging of equipment	No
Efficiency	
efficiency in percent	78 %
power loss [W]	
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	3 W
<ul> <li>during no-load operation maximum</li> </ul>	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	3 %
resistive load 10/90/10 % typical	
setting time	
<ul> <li>load step 10 to 90% typical</li> </ul>	1 ms
<ul> <li>load step 90 to 10% typical</li> </ul>	1 ms
Protection and monitoring	
design of the overvoltage protection	Yes, according to EN 60950-1
• typical	1.3 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• maximum	1.3 A
overcurrent overload capability in normal operation	overload capability 150% lout rated typ. 200 ms
display version for overload and short circuit	-
overcurrent overload capability when switching on	150% lout rated typ. 200 ms
Safety	Vaa
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 protection class IP	Class II (without protective conductor) IP20
Approvals	IF20
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)
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	Yes
ULhazloc approval	No
• FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	
EAC approval	Yes
certificate of suitability shipbuilding approval	Yes

shipbuilding approval	ABS, BV, DNV GL, LRS
Marine classification association	
<ul> <li>American Bureau of Shipping Europe Ltd. (ABS)</li> </ul>	Yes
<ul> <li>French marine classification society (BV)</li> </ul>	Yes
• DNV GL	Yes
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes
<ul> <li>Nippon Kaiji Kyokai (NK)</li> </ul>	No
EMC	
standard	
<ul> <li>for emitted interference</li> </ul>	EN 55022 Class B
<ul> <li>for mains harmonics limitation</li> </ul>	not applicable
• for interference immunity	EN 61000-6-2
environmental 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
Mechanics	
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 mm <sup>2</sup>
<ul> <li>for auxiliary contacts</li> </ul>	-
width of the enclosure	18 mm
height of the enclosure	90 mm
depth of the enclosure	53 mm
required spacing	
• top	20 mm
• bottom	20 mm
• left	0 mm
● right	0 mm
net weight	0.07 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15, direct mounting in different mounting positions
MTBF at 40 °C	3 793 080 h
other information	Specifications at rated input voltage and ambient temperature +25 $^\circ \text{C}$ (unless otherwise specified)

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