## SIEMENS

## Data sheet

## 6EP3331-6SB00-0AY0



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

type of the power supply network1-phase AC or DCsupply voltage at AC100 V+ minimum rated value100 V+ maximum rated value240 V- initial value264 V- initial value264 Voutput voltage at DC101 300 Vvide range input300 VAC for 1 sovervoltage oreload capability300 VAC for 1 sovervoltage oreload capability300 VAC for 1 sovervoltage oreload capability40 msovervoltage oreload capability5060 Hzovervoltage oreload capability5060 Hzine frequency5060 Hzine frequency0.35 Aovervoltage oreload capability0.36 Aine frequency0.36 Ainal rated input voltage 120 V0.36 Aof rated input voltage 230 V0.36 Aoutput voltage 230 V0.36 Afuse protection typenemended miniature circuit breaker: from 6 A characteristic B or form 2.4fuse protection type in the feeder24 Voutput voltage 10C rated value24 Voutput voltage 10C rated value24 Voutput voltage adjustable22	input			
• minimum rated value100 V• maximum rated value240 V• initial value85 V• full-scale value264 VInput voltage at DC10300 Vwide range inputYesovervottage overload capability300 V AC for 1 sbuffering time for rated value of the output current in the event of power failure minimum40 msoperating condition of the mains bufferingat Vin = 187 Vline frequency50060 Hzline frequency50060 Hzline frequency0.7 A• at rated input voltage 120 V0.7 A• at rated input voltage 230 V0.8 Ascurrent imitation of inviso current at 25 °C maximum25 AIzt value maximum0.8 Arsfuse protection type in the feeder24 Voutput voltage 230 V0.7 Aoutput voltage 230 V0.7 Aoutput voltage 230 V0.8 Arsurrent imitation of inviso current at 25 °C maximum25 AVoltage curve at output24 Voutput voltage 30 V0.8 Arsoutput voltage 30 V24 Voutput voltage 30 V24 Voutput voltage 30 Crated value24 Voutput voltage at DC rated value24 Voutput voltage3.%elative overal to output voltage3.%elative overal to output voltage3.%elative overal tolerance of the voltage3.%elative overal tolerance of the voltage0.1%output voltage adjustable0.1%enaltive overal tolerance of the voltage	type of the power supply network	1-phase AC or DC		
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• initial value85 V• full-scale value264 Vinput voltage at DC110 300 Vwide range inputYescovervoltage overload capability300 V AC for 1 sbuffering time for rated value of the output current in the event of power failure minimum40 msoperating condition of the mains bufferingat Vin = 187 Vline frequency47 66 Hzing frequency60/60 Hzing frequency0.7 A• at rated input voltage 230 V0.35 Acurrent limitation of inrush current at 25 °C maximum25 Afuse protection typeinternalfuse protection type in the feederControlled, isolated DC voltageoutput voltage 230 V0.36 Acurrent limitation of inrush current at 25 °C maximum25 Afuse protection type in the feederRecommended miniature circuit breaker: from 6 A characteristic B or form 2 A oharacteristic Cvoltage acurve at outputControlled, isolated DC voltageoutput voltage at DC rated value24 Voutput voltage at UC rated value24 Voutput voltage adjustable24 Voutput voltage adjustable3%relative overalt loterance of the voltage0.1 %on slow fluctuation of input voltage0.1 %o on slow fluctuation of hom loading0.1 %residual ripple	minimum rated value	100 V		
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vide 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           opperating condition of the mains buffering         at Vin = 187 V           line frequency         50/80 Hz           line frequency         47 63 Hz           input current         0.35 A           current limitation of inrush current at 25 °C maximum         25 A           l2t value maximum         0.8 A²-s           fuse protection type         internal           fuse protection type in the feeder         Controlled, isolated DC voltage           output voltage all DC rated value         24 V           output voltage all DC rated value         24 V           output voltage all DC rated value         24 V           output voltage allustable         Yes; via potentiometer           algustable or the voltage         3%           relative control precision of the voltage         0.1 %           relative control precision of the voltage         0.1 %           relative control precision of the output voltage         0.1 %           output voltage adjustable         Yes; via potentiometer           adjustable or the voltage         0.1 %           o	• full-scale value	264 V		
overvolage 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         50/60 Hz           input current         7 63 Hz           input current         0.7 A           • 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           fuse protection type         infermal           fuse protection type         infermal           fuse protection type in the feeder         Recommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic C           output voltage         24 V           output voltage         22 26.4 V           relative control precision of the output voltage         3%           output voltage         0.1 %           relative overall tolerance of the voltage         3%           e at output 1 at DC rated value         0.1 % <td>input voltage at DC</td> <td colspan="3">110 300 V</td>	input voltage at DC	110 300 V		
buffering line 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     0.7 A       • at rated input voltage 120 V     0.35 A       current limitation of inrush current at 25 °C maximum     25 A       lizt value maximum     0.8 A*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 at DC rated value     24 V       output voltage adjustable     24 V       output voltage digustable     22 2 26.4 V       relative cortor lor procession of the voltage     3 %       relative cortor lor procession of the voltage     0.1 %       e on slow fluctuation of ning voltage     0.1 %       e on slow fluctuation of ohm loading     0.1 %       residual ripple     200 mV       e maximum     200 mV	wide range input	Yes		
power failure minimum         et vin = 187 V           operating condition of the mains buffering         at Vin = 187 V           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           lizt 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           output voltage a turbut         Controlled, isolated DC voltage           output voltage adjustable         24 V           output voltage adjustable         Yes; via potentiometer           adjustable output voltage         22.2 26.4 V           relative control precision of the output voltage         0.1 %           on solw fluctuation of input voltage         0.1 %           on solw fluctuation of input voltage         0.1 %           output voltage adjustable         0.1 %	overvoltage overload capability	300 V AC for 1 s		
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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         [Lt 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 DC rated value       24 V         output voltage adjustable       Yes; via potentiometer         adjustable output voltage       2.2 26.4 V         relative outro of the output voltage       3%         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of one loading       0.1 %         • on slow fluctuation of one loading       0.1 %         • on slow fluctuation of path voltage       30 mV         voltage peak       -         • maximum       300 mV	operating condition of the mains buffering	at Vin = 187 V		
input current         0.7 A           • at rated input voltage 120 V         0.35 A           current limitation of inrush current at 25 °C maximum         25 A           I2t value maximum         0.8 A²s           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         Output voltage at DC rated value         24 V           output voltage adjustable         Yes; via potentiometer           adjustable output voltage         22.2 26.4 V           relative control precision of the output voltage         3 %           relative control precision of the output voltage         0.1 %           output voltage adjustable         200 mV           output voltage peak         200 mV           • on slow fluctuation of input voltage         200 mV           • output voltage         0.1 %           • on slow fluctuation of onh loading         0.1 %           • on slow fluctuation of onh loading         0.1 %           • on slow fluctuation of onh loading         30 mV	line frequency	50/60 Hz		
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• at rated input voltage 230 V0.35 Acurrent limitation of inrush current at 25 °C maximum25 A12t value maximum0.8 A²-sfuse protection typeinternalfuse protection type in the feederRecommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic CoutputControlled, isolated DC voltageoutput voltage at DC rated value24 Voutput voltage24 Voutput voltage24 Voutput voltage adjustableYes; via potentiometeradjustable output voltage3 %relative overall tolerance of the voltage0.1 %output fuctuation of innu voltage0.1 %output inple0.1 %outsuf urple30 mVvoltage peak300 mV	input current			
current limitation of inrush current at 25 °C maximum25 A12t value maximum0.8 A²-sfuse protection typeinternalfuse protection type in the feederRecommended miniature circuit breaker: from 6 A characteristic B or from 2 A characteristic Coutputcontrolled, isolated DC voltageoutput voltage at DC rated value24 Voutput voltage24 Voutput voltage adjustableYes; via potentiometeradjustable output voltage22.2 26.4 Vrelative cortrol precision of the output voltage3 %relative control precision of the output voltage0.1 %on slow fluctuation of input voltage0.1 %on slow fluctuation of input voltage200 mVoutput voltage eak o n slow fluctuation of and so maximum300 mV	<ul> <li>at rated input voltage 120 V</li> </ul>	0.7 A		
I2t value maximum       0.8 A <sup>2</sup> ·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       24 V         output voltage adjustable       24 V         output voltage adjustable       24 V         output voltage adjustable       22 26.4 V         relative overall tolerance of the voltage       3%         on slow fluctuation of input voltage       0.1 %         on slow fluctuation of of moleading       0.1 %         residual ripple       200 mV         ovoltage peak       300 mV	<ul> <li>at rated input voltage 230 V</li> </ul>	0.35 A		
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         output           voltage curve at output         Controlled, isolated DC voltage           output voltage at DC rated value         24 V           output voltage dijustable         22 26.4 V           relative overall tolerance of the voltage         3%           on slow fluctuation of input voltage         0.1 %           on slow fluctuation of ohm loading         0.1 %           output voltage peak         300 mV	current limitation of inrush current at 25 °C maximum	25 A		
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         24 V           output voltage adjustable         24 V           output voltage         22.2 26.4 V           relative control precision of the output voltage         0.1 %           o on slow fluctuation of ohm loading         0.1 %           output voltage         200 mV           output voltage peak         300 mV	I2t value maximum	0.8 A <sup>2.</sup> s		
characteristic C           output           voltage curve at output         Controlled, isolated DC voltage           output voltage at DC rated value         24 V           output voltage         Z4 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         0.1 %           outs fluctuation of ohm loading         0.1 %           residual ripple         Z00 mV           it typical         300 mV	fuse protection type	internal		
voltage curve at output         Controlled, isolated DC voltage           output voltage at DC rated value         24 V           output voltage         24 V           output voltage at output 1 at DC rated value         24 V           output voltage adjustable         24 V           output voltage adjustable         22 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         0.1 %           output ripple         200 mV           • on slow fluctuation of ohm loading         0.1 %           voltage peak         300 mV	fuse protection type in the feeder			
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output voltage         24 V           output voltage adjustable         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         0.1 %           • on slow fluctuation of input voltage         0.1 %           • on slow fluctuation of ohm loading         0.1 %           residual ripple         200 mV           • typical         30 mV           voltage peak         300 mV	voltage curve at output	Controlled, isolated DC voltage		
• at output 1 at DC rated value24 Voutput voltage adjustableYes; via potentiometeradjustable output voltage22.2 26.4 Vrelative overall tolerance of the voltage3 %relative control precision of the output voltage0.1 %• on slow fluctuation of input voltage0.1 %• on slow fluctuation of ohm loading0.1 %residual ripple200 mV• typical30 mVvoltage peak300 mV	output voltage at DC rated value	24 V		
output voltage adjustableYes; via potentiometeradjustable output voltage22.2 26.4 Vrelative overall tolerance of the voltage3 %relative control precision of the output voltage0.1 %• on slow fluctuation of input voltage0.1 %• on slow fluctuation of ohm loading0.1 %residual ripple200 mV• typical30 mVvoltage peak300 mV	output voltage			
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relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of ohm loading       0.1 %         residual ripple       200 mV         • typical       30 mV         voltage peak       300 mV	output voltage adjustable	Yes; via potentiometer		
relative control precision of the output voltage       0.1 %         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of ohm loading       0.1 %         residual ripple       200 mV         • typical       30 mV         voltage peak       300 mV	adjustable output voltage	22.2 26.4 V		
• on slow fluctuation of input voltage0.1 %• on slow fluctuation of ohm loading0.1 %residual ripple-• maximum200 mV• typical30 mVvoltage peak-• maximum300 mV	relative overall tolerance of the voltage	3 %		
• on slow fluctuation of ohm loading     0.1 %       residual ripple     200 mV       • maximum     200 mV       • typical     30 mV       voltage peak     300 mV       • maximum     300 mV	relative control precision of the output voltage			
residual ripple     200 mV       • maximum     200 mV       • typical     30 mV       voltage peak     300 mV       • maximum     300 mV	<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.1 %		
• maximum     200 mV       • typical     30 mV       voltage peak     300 mV       • maximum     300 mV	<ul> <li>on slow fluctuation of ohm loading</li> </ul>	0.1 %		
• typical     30 mV       voltage peak     300 mV       • maximum     300 mV	residual ripple			
voltage peak • maximum 300 mV	• maximum	200 mV		
• maximum 300 mV	• typical	30 mV		
	voltage peak			
• typical 50 mV	• maximum	300 mV		
	• typical	50 mV		

display version for normal operation	Green LED for output voltage OK		
display version for normal operation 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]			
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	5.1 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 resistive load 10/90/10 % typical	1 %		
setting time			
<ul> <li>load step 10 to 90% typical</li> </ul>	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 1.7 A		
typical     overcurrent overload capability	1.7 A		
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		
EMC			
standard			
• for emitted interference	EN 55022 Class B		
<ul> <li>for mains harmonics limitation</li> </ul>	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		

	2.004.000 h		
MTBF at 40 °C	3 094 996 h		
standards, specifications, approvals hazardous environments			
certificate of suitability			
• IECEx	No		
• ATEX	No		
<ul> <li>ULhazloc approval</li> </ul>	No		
<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No		
<ul> <li>FM registration</li> </ul>	No		
standards, specifications, approvals marine classification			
shipbuilding approval	Yes		
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		
Det Norske Veritas (DNV)	Yes		
<ul> <li>Lloyds Register of Shipping (LRS)</li> </ul>	Yes		
standards, specifications, approvals Environmental Product Dec	claration		
Environmental Product Declaration	Yes		
global warming potential [CO2 eq]			
• total	141.9 kg		
during manufacturing	2.3 kg		
during manufacturing     outring operation	2.3 kg		
after end of life	-		
	0.08 kg		
ambient conditions			
ambient temperature			
during operation	-25 +70; with natural convection		
during transport	-40 +85		
during storage	-40 +85		
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation		
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		
<ul> <li>at output</li> </ul>	+, -: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup>		
<ul> <li>for auxiliary contacts</li> </ul>	-		
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		
<ul> <li>standard rail mounting</li> </ul>	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://mall.industry.siemens.com		
<ul> <li>to websate: industry main</li> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstcloud		
<ul> <li>to web page: power supplies</li> </ul>	https://siemens.com/sitop		
<ul> <li>to web page. power supplies</li> <li>to website: CAx-Download-Manager</li> </ul>	https://siemens.com/cax		
C C			
to website: Industry Online Support     additional information	https://support.industry.siemens.com		
	Operations of rated insulture there and enablight to a second sec		
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		
county mornation	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 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 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

