## 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 type in the feederRecommended miniature circuit breaker: from 6 A characteristic B or from 2 Afuse protection type in the feeder24 Voutput voltage at DC rated value24 Voutput voltage at DC rated value24 Voutput voltage adjustable3%relative control precision of the voltage3%relative control precision of the voltage222	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 outgae3.%elative overal to output voltage3.%elative overal tolerance of the voltage3.%elative overal tolerance of the voltage0.1%output voltage adjustable0.1%enative overal tolerance of the voltage </th <th>type of the power supply network</th> <th>1-phase AC or DC</th>	type of the power supply network	1-phase AC or DC
• maximum rated value240 V• initial value85 V• full-scale value264 Vinput voltage at DC110 300 Vwide range inputYes• overvidage overload capability300 VAC for 1 s• buffering time for rated value of the output current in the event of40 ms• operating condition of the mains buffering41 vn = 187 Vine frequency5060 Hz• ine frequency5060 Hz• at rated input voltage 120 V0.7 A• at rated input voltage 230 V0.35 A• at rated input voltage 230 V0.35 A• current limitation of innus current at 25 °C maximum25 Afuse protection typeinternal• fuse protection typeinternal• at rated input voltage 230 V0.35 A• at rated input voltage 120 V0.35 A• at rated input voltage 210 V0.48 °s• at rated input voltage 210 V0.48 °s• at rated input voltage 210 V0.48 °s• at rated input voltage 210 V24 V• at rated input voltage 210 V24 V• output voltage at DC rated value24 V• output voltage at DC rated value22 2.2.26.4 V• at output 1 at DC rated value23 N• relative control precision of the output voltage3%• relative control precision of the output voltage3%• relative control precision of the output voltage3%• relative control precision of the output voltage1%• relative control precision of the output voltage1% <td< td=""><td>supply voltage at AC</td><td></td></td<>	supply voltage at AC	
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• full-scale value264 Vinput voltage at DC110 300 Vwide range inputYesovervoltage voltad capability300 VAC 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 frequency50/60 Hzinde frequency0.7 A• at rated input voltage 120 V0.35 A• at rated input voltage 230 V0.35 Acurrent limitation of inrush current at 25 °C maximum25 Afixe protection typeinternalfuse protection typeRecommended miniature circuit breaker: from 6 A characteristic Coutput voltage24 Voutput voltage adjustable24 Voutput voltage adjustable22.2264 Vadjustable output voltage22.2264 Vrelative control precision of the output voltage0.1 %• on slow fluctuation of input voltage0.1 %output voltage adjustable0.1 %• on slow fluctuation of input voltage0.1 %• on slow fluctuation of input voltage0.0 mV	<ul> <li>maximum rated value</li> </ul>	240 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         40 ms           operating condition of the mains buffering         at Vin = 187 V           line frequency         5060 Hz           line frequency         47 63 Hz           input current         0.7 A           • at rated input voltage 230 V         0.35 A           current limitation of inrush current at 25 "C maximum         25 A           Ize value maximum         0.8 A²s           fuse protection type         internal           fuse protection type         formal           output voltage at DC rated value         24 V           output voltage at Ustabile         7% sc via potentionmeter           adjustable output voltage         2226.4 V           relative cortrol precision of the output voltage         0.1 %           e at output to logerin of thm loading         0.1 %	initial value	85 V
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           122 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         Internal           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         24 V           output voltage         22 26.4 V           relative control precision of the output voltage         3%           output voltage         0.1 %           e on slow fluctuation of input voltage         0.1 %           output total DC rated value         0.1 %	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         24 V           output voltage adjustable         22.2 26.4 V           relative control precision of the output voltage         0.1 %           e on slow fluctuation of input voltage         0.1 %           e on slow fluctuation of input voltage         0.1 %           e maximum         200 mV           output voltage peak         000 mV	overvoltage overload capability	300 V AC for 1 s
Ine frequency50/60 Hzline frequency47 63 Hzinput current-• at rated input voltage 120 V0.7 A• at rated input voltage 230 V0.35 Acurrent limitation of inrush current at 25 °C maximum25 AIzt value maximum0.8 A <sup>3</sup> ·sfuse protection typeinternalfuse protection typereferemainvoltage curve at outputControlled, isolated DC voltageoutput voltage at DC rated value24 Voutput voltage22 26.4 Vrelative control type3%relative control type0.1 %on slow fluctuation of input voltage0.1 %• at output voltage0.1 %• at output voltage300 mVvoltage peak0.3 %		40 ms
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         0.1 %           • on slow fluctuation of ond neoding         0.1 %           • on slow fluctuation of ond modading         0.1 %           • on slow fluctuation of ond by output voltage         200 mV           • on slow fluctuation of ond modading         300 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	
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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 control precision of the output voltage         0.1 %           outs of fluctuation of input voltage         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	
adjustable 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• maximum200 mV• typical30 mVvoltage peak300 mV• maximum300 mV	<ul> <li>at output 1 at DC rated value</li> </ul>	24 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	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

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	
<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	162 kg
<ul> <li>during manufacturing</li> </ul>	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 terminal
● 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>
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
<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
• to website: Industrial communication	https://siemens.com/industrial-communication
• to website: CAx-Download-Manager	https://siemens.com/cax
• 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

СВ	СВ	SP.	Manufacturer Declara- tion	Declaration of Con- formity	UK CA
General Product App	proval		Marine / Shipping		
	RCM	<u>BIS CRS</u>	ABS	BUREAU VERITAS	
Marine / Shipping	Environment				
Llovd's Register us	EPD				
last modified:		8/28	/2024 🖸		