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 *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
 maximum rated value 	240 V
 initial value 	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	
 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 A ² ·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	24 V
output voltage	
 at output 1 at DC rated value 	24 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
• typical	30 mV
voltage peak	
• maximum	300 mV
• typical	50 mV

adjustable output voltage product function output voltage adjustable type of output voltage setting display version for normal operation behavior of the output voltage when switching on response delay maximum voltage increase time of the output voltage • typical output current • rated value • rated value • rated range supplied active power typical product feature • bridging of equipment number of parallel-switched equipment resources for increasing the power	 22.2 26.4 V Yes via potentiometer Green LED for output voltage OK No overshoot of Vout (soft start) 0.5 s 100 ms 1.3 A 0 1.3 A; +55 +70 °C: Derating 2%/K 31.2 W Yes 2
Efficiency	86 %
efficiency in percent power loss [W]	00 /0
 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	1 mc
 load step 10 to 90% typical load step 90 to 10% typical 	1 ms 1 ms
Protection and monitoring	
design of the overvoltage protection	Yes, according to EN 60950-1
response value current limitation typical	1.7 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• maximum	1.7 A
overcurrent overload capability in normal operation	overload capability 150% lout rated typ. 200 ms
display version for overload and short circuit	- 50 mV =^ 1.3 A
measuring point for output current overcurrent overload capability when switching on	50 mV =^ 1.3 A 150% lout rated typ. 200 ms
Safety	
galvanic isolation between input and output	Yes
galvanic isolation between input and output	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
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)
 cCSAus, Class 1, Division 2 	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	Yes
ULhazloc approval	No
FM registration type of contification CR contification	No
type of certification CB-certificate certificate of suitability	Yes

certificate of suitability shipbuilding approval Yes shipbuilding approval ABS, BV, DNV GL, LRS American Bureau of Shipping Europe Ltd. (ABS) Yes • French marine classification society (BV) Yes • DNV GL Yes • Loyds Register of Shipping (LRS) Yes • Nippon Kaiji Kyokai (NK) No EMC Ender Standard • for emitted interference EN 55022 Class B • for omitted interference EN 55022 Class B • for interference inmunity EN 61000-6-2 • Noromental conditions mot applicable • for interference inmunity EN 61000-6-2 • Noromental conditions - ambient temperature - • during peration -40+85 °C • during transport -40+85 °C • during transport -40+85 °C • at input Screw-type terminals • at output +, -: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded • at output +, -: 1 screw terminal each for 0.5 2.5 mm ² • at output +, -: 1 screw terminal each for 0.5 2.5 mm ² • for auxiliary contacts - • at output +, -: 1 screw terminal each for 0.5 2.5 mm ³ • leit 0 mm • botto	EAC approval	Yes
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