SIEMENS

Data sheet 6EP1332-5BA20



SITOP PSU100C/1ACDC/24VDC/4A/NECCLASS2

SITOP PSU100C 24 V/3.7 A stabilized power supply input: 120-230 V AC (110-300 V DC) output: 24 V DC/3.7 A restricted output NEC Class 2 *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 230 V • initial value 85 V • full-scale value 264 V input voltage 110 ... 300 V • at DC design of input wide range input overvoltage overload capability 2.3 × Vin rated, 1.3 ms operating condition of the mains buffering at Vin = 230 V buffering time for rated value of the output current in the 20 ms event of power failure minimum operating condition of the mains buffering at Vin = 230 V line frequency 50 Hz • 1 rated value • 2 rated value 60 Hz 47 ... 63 Hz line frequency input current • at rated input voltage 100 V 1.88 A • at rated input voltage 230 V 0.95 A current limitation of inrush current at 25 °C maximum 30 A 3 A²·s 12t value maximum fuse protection type internal • in the feeder Recommended miniature circuit breaker: from 16 A characteristic B or from 10 A characteristic C

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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 	0.2 %
residual ripple	
maximum	200 mV
• typical	90 mV
voltage peak	
• maximum	300 mV
• typical	60 mV

Output

	N
product function output voltage adjustable	No
type of output voltage setting	•
display version for normal operation	Green LED for output voltage OK
behavior of the output voltage when switching on	Overshoot of Vout approx. 1 %
response delay maximum	1.5 s
voltage increase time of the output voltage	
• typical	500 ms
output current	
• rated value	3.7 A
rated range	0 3.7 A; +50 +70 °C: Derating 3.5%/K; at +70 °C lout rated 1.1 A
supplied active power typical	89 W
product feature	
bridging of equipment	No
	110
Efficiency	07.04
efficiency in percent	87 %
power loss [W]	
at rated output voltage for rated value of the output	14 W
current typical	
during no-load operation maximum	0.75 W
Closed-loop control	
relative control precision of the output voltage with rapid	0.1 %
fluctuation of the input voltage by +/- 15% typical	
relative control precision of the output voltage at load step	3 %
of resistive load 10/90/10 % typical	
setting time	
load step 10 to 90% typical	4 ms
load step 90 to 10% typical	4 ms
Protection and monitoring	
design of the overvoltage protection	Yes, according to EN 60950-1
• typical	4 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
·	-
display version for overload and short circuit	
display version for overload and short circuit Safety	
display version for overload and short circuit Safety galvanic isolation between input and output	Yes
display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class	Yes
display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I
display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.4 mA
display version for overload and short circuit Safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
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• French marine classification society (BV) No • DNV GL Yes • Lloyds Register of Shipping (LRS) No Nippon Kaiji Kyokai (NK) No **EMC** standard EN 55022 Class B • for emitted interference • for mains harmonics limitation EN 61000-3-2 • for interference immunity EN 61000-6-2 environmental conditions ambient temperature -20 ... +70 °C; with natural convection · during operation during transport -40 ... +85 °C -40 ... +85 °C · during storage 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, PE: Removable screw terminal, each for 1 x 0.5 ... 2.5 mm² at output +: 1 screw terminal for 0.5 ... 2.5 mm²; -: 2 screw terminals for 0.5 ... 2.5 mm² • for auxiliary contacts width of the enclosure 52.5 mm height of the enclosure 80 mm depth of the enclosure 100 mm required spacing 50 mm top bottom 50 mm left 0 mm 0 mm right net weight 0.32 kg product feature of the enclosure housing can be lined up Yes



2 776 544 h

Snaps onto DIN rail EN 60715 35x7.5/15

(unless otherwise specified)

Removable spring-type terminal 6EP1971-5BA00

Specifications at rated input voltage and ambient temperature +25 °C

fastening method electrical accessories

MTBF at 40 °C

other information