SIEMENS

Data sheet 6EP1334-2BA20



SITOP PSU100S/1AC/24VDC/10A

SITOP PSU100S 24 V/10 A stabilized power supply input: 120/230 V AC output: 24 V DC/10 A

input		
type of the power supply network	1-phase AC	
supply voltage at AC	Automatic range selection	
supply voltage	120 V/230 V	
input voltage 1 at AC	85 132 V	
input voltage 2 at AC	170 264 V	
wide range input	No	
overvoltage overload capability	2.3 × Vin rated, 1.3 ms	
buffering time for rated value of the output current in the event of power failure minimum	20 ms	
operating condition of the mains buffering	at Vin = 93/187 V	
line frequency	50/60 Hz	
line frequency	47 63 Hz	
input current		
 at rated input voltage 120 V 	4.49 A	
at rated input voltage 230 V	1.91 A	
current limitation of inrush current at 25 °C maximum	60 A	
12t value maximum	5.6 A²-s	
fuse protection type	T 6.3 A/250 V (not accessible)	
fuse protection type in the feeder	Recommended miniature circuit breaker: from 10 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	
output voltage adjustable	Yes; via potentiometer	
adjustable output voltage	22.8 28 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 	1 %	
residual ripple		
• maximum	150 mV	
• typical	20 mV	
voltage peak		
• maximum	240 mV	
• typical	160 mV	
display version for normal operation	Green LED for 24 V OK	
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	
behavior of the output voltage when switching on	Overshoot of Vout < 3 %	

rocponeo dolov mavimum	0.2.0	
response delay maximum	0.3 s	
voltage increase time of the output voltage	20 mg	
• typical	20 ms	
output current	40.4	
• rated value	10 A	
rated range	0 12 A; 12 A up to +45°C; +60 +70 °C: Derating 3%/K	
supplied active power typical	288 W	
short-term overload current		
 on short-circuiting during the start-up typical 	32 A	
at short-circuit during operation typical	32 A	
duration of overloading capability for excess current		
 on short-circuiting during the start-up 	1 000 ms	
at short-circuit during operation	1 000 ms	
bridging of equipment	Yes	
number of parallel-switched equipment resources for increasing the power	2	
efficiency		
efficiency in percent	90 %	
power loss [W]		
 at rated output voltage for rated value of the output current typical 	25 W	
closed-loop control		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %	
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	3 %	
setting time		
 load step 10 to 90% typical 	1 ms	
• load step 90 to 10% typical	1 ms	
protection and monitoring		
design of the overvoltage protection	protection against overvoltage in case of internal fault Vout < 33 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Constant current characteristic	
response value current limitation	12 14.6 A	
overcurrent overload capability		
• in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value		
• typical	14.6 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 I	
leakage current		
• maximum	3.5 mA	
• typical	0.8 mA	
protection class IP	IP20	
EMC		
standard		
for emitted interference	EN 55022 Class B	
for mains harmonics limitation	EN 61000-3-2	
• for interference immunity	EN 61000-5-2 EN 61000-6-2	
standards, specifications, approvals	21.0.000 0 2	
certificate of suitability		
CE marking	Yes	
UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	
CSA approval	(CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	
• LIKCA marking	(CSA C22.2 No. 60950-1, UL 60950-1)	
UKCA marking FAC energyel	Yes	
EAC approvalNEC Class 2	Yes No	
• NEC Class 2 type of certification	NO	

• BIS	Yes; R-41188271
CB-certificate MTDF at 40 °C	Yes
MTBF at 40 °C	1 614 510 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	
 American Bureau of Shipping Europe Ltd. (ABS) 	No
French marine classification society (BV)	Yes
Det Norske Veritas (DNV)	Yes
 Lloyds Register of Shipping (LRS) 	No
standards, specifications, approvals Environmental Product Dec	claration
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	803.2 kg
 during manufacturing 	20.7 kg
 during operation 	781.8 kg
after end of life	0.57 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, PE: 1 screw terminal each for 0.5 2.5 mm ² single-core/finely stranded
-1 - de d	O ti
• at output	+, -: 2 screw terminals each for 0.5 2.5 mm ²
• for auxiliary contacts	Alarm signals: 2 screw terminals for 0.5 2.5 mm ²
for auxiliary contactsfor signaling contact	
for auxiliary contacts for signaling contact mechanical data	Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ²
for auxiliary contacts for signaling contact mechanical data width × height × depth of the enclosure	Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² $70 \times 125 \times 120 \text{ mm}$
for auxiliary contacts for signaling contact mechanical data width × height × depth of the enclosure installation width × mounting height	Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ²
for auxiliary contacts for signaling contact mechanical data width × height × depth of the enclosure installation width × mounting height required spacing	Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 70 × 125 × 120 mm 70 mm × 225 mm
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for auxiliary contacts for signaling contact mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top	Alarm signals: 2 screw terminals for 0.5 2.5 mm ² 2 screw terminals for 0.5 2.5 mm ² 70 × 125 × 120 mm 70 mm × 225 mm 50 mm
for auxiliary contacts for signaling contact mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom	Alarm signals: 2 screw terminals for 0.5 2.5 mm² 2 screw terminals for 0.5 2.5 mm² 70 × 125 × 120 mm 70 mm × 225 mm 50 mm 50 mm
for auxiliary contacts for signaling contact mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left	Alarm signals: 2 screw terminals for 0.5 2.5 mm² 2 screw terminals for 0.5 2.5 mm² 70 × 125 × 120 mm 70 mm × 225 mm 50 mm 50 mm 0 mm
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for auxiliary contacts for signaling contact mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method	Alarm signals: 2 screw terminals for 0.5 2.5 mm² 2 screw terminals for 0.5 2.5 mm² 70 × 125 × 120 mm 70 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15
for auxiliary contacts for signaling contact mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting	Alarm signals: 2 screw terminals for 0.5 2.5 mm² 2 screw terminals for 0.5 2.5 mm² 70 × 125 × 120 mm 70 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes
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for auxiliary contacts for signaling contact mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting S7 rail mounting wall mounting	Alarm signals: 2 screw terminals for 0.5 2.5 mm² 2 screw terminals for 0.5 2.5 mm² 70 × 125 × 120 mm 70 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No
for auxiliary contacts for signaling contact mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up	Alarm signals: 2 screw terminals for 0.5 2.5 mm² 2 screw terminals for 0.5 2.5 mm² 70 × 125 × 120 mm 70 mm × 225 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes
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for auxiliary contacts for signaling contact mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up net weight accessories electrical accessories mechanical accessories	Alarm signals: 2 screw terminals for 0.5 2.5 mm² 2 screw terminals for 0.5 2.5 mm² 70 × 125 × 120 mm 70 mm × 225 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.8 kg
for auxiliary contacts for signaling contact mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting S7 rail mounting wall mounting housing can be lined up net weight accessories electrical accessories mechanical accessories further information internet links	Alarm signals: 2 screw terminals for 0.5 2.5 mm² 2 screw terminals for 0.5 2.5 mm² 70 × 125 × 120 mm 70 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes 0.8 kg Buffer module
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other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

security information

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	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





Manufacturer Declaration

Declaration of Conformity





General Product Approval

Marine / Shipping

Environment

Miscellaneous

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