MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6EP3343-0SA00-0AY0

ADJUSTABLE DC POWER SUPPLY

Used with the applicable SITOP PSU3600 flexi configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

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Data sheet 6EP3343-0SA00-0AY0



SITOP PSU3600 FLEXI/1AC/3-52VDC/10A/120W

SITOP PSU3600 flexi Stabilized power supply Input: 120-230 V AC Output: 3-52 V DC/10 A, 120 W

Input	
type of the power supply network	1-phase AC or DC
supply voltage at AC	
● minimum rated value	120 V
● maximum rated value	230 V
● initial value	85 V; Derating at < 110 V AC/DC: output power max. 100 W
● full-scale value	264 V
supply voltage	
● at DC	110 ... 220 V
input voltage	
● at DC	88 ... 250 V
design of input wide range input	Yes
operating condition of the mains buffering	With Pa = 120 W and Ue = 230 V AC
buffering time for rated value of the output current in the event of power failure minimum	80 ms
operating condition of the mains buffering	With Pa = 120 W and Ue = 230 V AC
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	2.6 A
● at rated input voltage 230 V	1.3 A
● at rated input voltage 110 V	1.3 A
● at rated input voltage 220 V	0.7 A
current limitation of inrush current at 25 °C maximum	35 A
I2t value maximum	1 $A^2 \cdot s$
fuse protection type	T 3.15 A (not accessible)
● in the feeder	Recommended miniature circuit breaker: 6-10 A characteristic C
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
formula for output voltage	3-52 V DC
output voltage	
● at output 1 at DC rated value	24 V
relative overall tolerance of the voltage	1 %
relative control precision of the output voltage	
● on slow fluctuation of input voltage	0.1 %
● on slow fluctuation of ohm loading	1 %
voltage compensation per sense line	0.5 V

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residual ripple	
● maximum	50 mV
voltage peak	
● maximum	100 mV
adjustable output voltage	0 ... 52 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer (setting range 3 to 52 V) or analog control voltage signal 0 to 2.5 V (setting range 0 to 52 V)
display version for normal operation	Two-color LED: green for 24 V o.k., red for overload
type of signal at output	DC OK via relay contact, current monitor signal (0 to 2.5 V correspond to 0 to 10 A)
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	20 ms
output current	
● rated value	10 A
● rated range	0 ... 10 A; Output power max. 120 W
supplied active power typical	120 W
constant overload current	
● on short-circuiting during the start-up typical	12 A
● at short-circuit during operation typical	12 A
product feature	
● bridging of equipment	Yes
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	88 %
power loss [W]	
● at rated output voltage for rated value of the output current typical	16 W
● during no-load operation maximum	3 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 load step of resistive load 50/100/50 % typical	5 %
setting time	
● maximum	0.2 ms
Protection and monitoring	
design of the overvoltage protection	≤ 60 V according to EN 60950-1
response value current limitation	2 ... 10 A
design of the current limitation	Can be set with potentiometer or analog control voltage signal 0.5 ... 2.5 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic current limiting (2 ... 10 A) in the range 3 ... 12 V or power limiting (120 W) in the range 12 ... 52 V
enduring short circuit current RMS value	
● maximum	12 A
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
operating resource protection class	Class I
leakage current	
● maximum	3.5 mA
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
● CSA approval	No; -
● cCSAus, Class 1, Division 2	No
● ATEX	No

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certificate of suitability	
● IECEx	No
● NEC Class 2	No
● ULhazloc approval	No
● FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	
● EAC approval	Yes
● C-Tick	Yes
● Regulatory Compliance Mark (RCM)	Yes
certificate of suitability shipbuilding approval	No
shipbuilding approval	-
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	No
● French marine classification society (BV)	No
● DNV GL	No
● Lloyds Register of Shipping (LRS)	No
● Nippon Kaiji Kyokai (NK)	No
EMC	
standard	
● for emitted interference	EN 55022 Class B
● for mains harmonics limitation	EN 61000-3-2
● for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
● during operation	-25 ... +70 °C; Derating > 60°C: 2%/°K
● during transport	-40 ... +85 °C
● during storage	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 … 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
● at input	L1, N, PE: 1 screw terminal each for 0.5 ... 2.5 mm² single-core/finely stranded
● at output	+, -: 2 screw terminals each for 0.5 ... 2.5 mm² single-core/finely stranded
● for auxiliary contacts	Alarm signals, control inputs: screw-type terminals for 0.14 ... 1.5 mm² single-core/finely stranded
width of the enclosure	42 mm
height of the enclosure	125 mm
depth of the enclosure	135 mm
required spacing	
● top	50 mm
● bottom	50 mm
● left	0 mm
● right	0 mm
net weight	0.55 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	1 200 000 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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