## SIEMENS

## Data sheet

## 6EP1433-0AA00



SITOP PSU300E 24 V/5 A Stabilized power supply input: 3 AC 400-500 V output: 24 V DC/5 A

Input	
Input	3-phase AC
Rated voltage value Vin rated	400 500 V
Voltage range AC	320 550 V
Wide-range input	Yes
Mains buffering	at Vin = 400 V
Mains buffering at lout rated, min.	50 ms; at Vin = 400 V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 63 Hz
input current	
<ul> <li>at rated input voltage 400 V</li> </ul>	0.36 A
<ul> <li>at rated input voltage 500 V</li> </ul>	0.29 A
Switch-on current limiting (+25 °C), max.	15 A
l²t, max.	0.9 A <sup>2</sup> ·s
Built-in incoming fuse	none
Protection in the mains power input (IEC 898)	Required: 3-pole connected miniature circuit breaker 6 A characteristic B or C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711- 1DD10 (UL 489)
Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
• output voltage at output 1 at DC rated value	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	3 %
Static load balancing, approx.	3 %
Residual ripple peak-peak, max.	150 mV
Residual ripple peak-peak, typ.	35 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	70 mV
Adjustment range	24 29 V
product function output voltage adjustable	Yes
Output voltage setting	via potentiometer; max. 120 W
Status display	Green LED for 24 V OK
Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"

SITOP PSU300E/3AC/24VDC/5A

On/off behavior	Overshoot of Vout approx. 3 %
	0.5 s
Startup delay, max.	
Voltage rise, typ.	10 ms
voltage increase time of the output voltage maximum Rated current value lout rated	_ 100 ms 5 A
Current range	05A
supplied active power typical	120 W
short-term overload current	00 A
<ul> <li>on short-circuiting during the start-up typical</li> </ul>	33 A
at short-circuit during operation typical	28 A
duration of overloading capability for excess current	440
<ul> <li>on short-circuiting during the start-up</li> </ul>	140 ms
at short-circuit during operation	135 ms
Parallel switching for enhanced performance	No
Efficiency	
Efficiency at Vout rated, lout rated, approx.	90 %
Power loss at Vout rated, lout rated, approx.	13 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	3 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	5 %
Load step setting time 50 to 100%, typ.	1 ms
Load step setting time 100 to 50%, typ.	1 ms
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	1 %
Load step setting time 10 to 90%, typ.	1 ms
Load step setting time 90 to 10%, typ.	1 ms
setting time maximum	30 ms
Protection and monitoring	
Output overvoltage protection	Yes, according to EN 60950-1
Current limitation, typ.	11 A
property of the output short-circuit proof	Yes
Short-circuit protection	Electronic shutdown, automatic restart
enduring short circuit current RMS value	
• maximum	7.5 A
Safety	
Primary/secondary isolation	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
Degree of protection (EN 60529)	IP20
Approvals	
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Explosion protection	-
certificate of suitability NEC Class 2	No
FM approval	-
CB approval	No
certificate of suitability EAC approval	Yes
Marine approval	-
EMC	
Emitted interference	EN 55022 Class A
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-5-2
environmental conditions	
ambient temperature	0 60 °C
during operation	
— Note	with natural convection -40 +85 °C
during transport	-40 +85 °C -40 +85 °C
<ul> <li>during storage</li> </ul>	

Humidity class according to EN 60721	Climate class 3K3, 5 95% no condensation
Mechanics	
Connection technology	screw-type terminals
Connections	
Supply input	L1, L2, L3, PE: Removable screw terminal for 0.5 2.5 mm <sup>2</sup> single-core/finely stranded
Output	+, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup>
Auxiliary	13, 14 (alarm signal): 1 screw terminal each for 0.5 2.5 mm <sup>2</sup>
product function	
<ul> <li>removable terminal at input</li> </ul>	Yes
removable terminal at output	Yes
width of the enclosure	42 mm
height of the enclosure	125 mm
depth of the enclosure	125 mm
required spacing	
• top	50 mm
bottom	50 mm
• left	0 mm
● right	0 mm
Weight, approx.	0.6 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
MTBF at 40 °C	2 389 441 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

C