SIEMENS

Product data sheet 6EP1333-7CA00



SITOP PSU100P IP67 STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V DC/5 A

Technical specifications		
Product	SITOP PSU100P	
Power supply, type	24 V/5 A	
Input		
Input	1-phase AC	
Supply voltage / 1 / at AC / nominal value	120 V	
Supply voltage / 2 / at AC / nominal value	230 V	
Voltage range		
• Note	Automatic range selection	
Input voltage / 1 / at AC	85 132 V	
Input voltage / 2 / at AC	170 264 V	
Wide-range input	No	
Overvoltage resistance	Implemented internally with varistor	
Mains buffering at lout rated, min.	40 ms	
Mains buffering	at Vin = 120/230 V	
Rated line frequency	50 / 60 Hz	
Rated line range	47 63 Hz	
Input current / at nominal level of the input voltage 120 V	2.25 A	
Input current / at nominal level of the input voltage 230 V	1.24 A	
Switch-on current limiting (+25 °C), max.	15 A	
I²t, max.	0.6 A²-s	

Built-in incoming fuse	T 3.15 A
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 6 A characteristic C/B
Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.1 %
Static load balancing, approx.	0.2 %
Residual ripple peak-peak, max.	50 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	100 mV
Product feature / output voltage adjustable	No
Status display	Green LED: 24 V OK; red LED flashing: "overload/short-circuit"
Signaling	Relay contact (NO contact, rating 30 V AC/ 0.5 A; 30 V DC/1 A) for 24 V OK
On/off behavior	Overshoot of Vout < 3 %
Startup delay, max.	1.5 s
Voltage rise, typ.	22 ms
Voltage increase time / of the output voltage / maximum	100 ms
Rated current value lout rated	5 A
Current range	0 5 A
delivered active power / typ.	133 W
short-term overload current / at short-circuit during run-up / typical	20 A
Duration of overloading ability for excess current / on short-circuiting during the start-up	50 ms
short-term overload current / at short-circuit during operation / typical	20 A
Duration of overloading ability for excess current / on short-circuiting during the operational phase	50 ms
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	90 %
Power loss at Vout rated, lout rated, approx.	12.9 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.2 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	1 %
Setting time / maximum	2 ms
Protection and monitoring	
Output overvoltage protection	< 29 V
Current limitation, typ.	5.5 A
Characteristic feature of the output / short-circuit protected	Yes

Short-circuit protection	Electronic shutdown, automatic restart
Enduring short circuit current / Effective level / maximum	6 A
Enduring short circuit current / Effective level / typical	5 A
Overload/short-circuit indicator	Red LED flashing for "overload/short-circuit"
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
stray current / maximum	3.5 mA
stray current / typical	1 mA
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1)
Explosion protection	-
FM approval	-
CB approval	No
Marine approval	-
Degree of protection (EN 60529)	IP67, enclosure type 4 indoor
EMC	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2
Operating data	
Ambient temperature / in operation	-25 +60 °C
• Note	with natural convection
Ambient temperature / on transport	-40 +85 °C
Ambient temperature / in storage	-40 +85 °C
Mechanics	
Connection technology	screw-type terminals
Connections / Supply input	L1, N, PE: Plug connector 7/8" (counterpart see "Operating Instructions (compact)")
Connections / Output	+, -: Plug connector 7/8" (counterpart see "Operating Instructions (compact)")
Connections / Auxiliary	Alarm signals: M12 plug-in connector 4-pin
Width / of the housing	120 mm
Height / of the housing	181 mm
Depth / of the housing	60.5 mm
Installation width	120 mm
Weight, approx.	1.1 kg

Product feature / of the housing / housing for side-by-side mounting	Yes
Mounting type / wall mounting	Yes
Type of mounting / standard rail mounting	No
Mounting type / S7 rail mounting	No
Installation	Wall mounting
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

letzte Änderung: