SIEMENS

Data sheet 6EP1332-2BA20



SITOP PSU100S/1AC/24VDC/2.5A

SITOP PSU100S 24 V/2.5 A stabilized power supply input: 120/230 V AC output: 24 V DC/2.5 A *Ex approval no longer available*

Input	
Input	1-phase AC
Note	Automatic range selection
supply voltage	
 1 at AC rated value 	120 V
2 at AC rated value	230 V
input voltage	
• 1 at AC	85 132 V
• 2 at AC	170 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering	at Vin = 93/187 V
Mains buffering at lout rated, min.	20 ms; at Vin = 93/187 V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 63 Hz
input current	
 at rated input voltage 120 V 	1.25 A
 at rated input voltage 230 V 	0.74 A
Switch-on current limiting (+25 °C), max.	33 A
I²t, max.	0.4 A ² ·s
Built-in incoming fuse	T 3,15 A/250 V (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 3 A characteristic C
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.	0.1 %
Static load balancing, approx.	1 %
Residual ripple peak-peak, max.	150 mV
Residual ripple peak-peak, typ.	30 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	70 mV
Adjustment range	22.8 28 V
product function output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 24 V OK
Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"

Oversheet of Vaut < 2.0/
Overshoot of Vout < 3 %
0.3 s
15 ms
2.5 A
0 3 A
3 A up to +45°C; +60 +70 °C: Derating 3%/K
60 W
9 A
9 A
100 ms
800 ms
Yes
2
85 %
10 W
0.3 %
5 %
1 ms
1 ms
protection against overvoltage in case of internal fault Vout < 33 V
3 3.4 A
Yes
Constant current characteristic
3.4 A
overload capability 150 % lout rated up to 5 s/min
-
Yes
Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Class I
Olass I
3.5 mA
0.4 mA IP20
II 20
Vac
Yes
cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259, cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
No
Yes
Yes
BV, DNV GL
EN 55022 Class B
and non-Bookle
not applicable
EN 61000-6-2
EN 61000-6-2
EN 61000-6-2 -25 +70 °C
-25 +70 °C with natural convection

Mechanics	
Connection technology	screw-type terminals
Connections	
Supply input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded
Output	+, -: 2 screw terminals each for 0.5 2.5 mm²
Auxiliary	Alarm signals: 2 screw terminals for 0.5 2.5 mm ²
signaling contact	2 screw terminals for 0.5 2.5 mm ²
width of the enclosure	32.5 mm
height of the enclosure	125 mm
depth of the enclosure	120 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
Weight, approx.	0.32 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Buffer module
mechanical accessories	Device identification label 20 mm × 7 mm, pale turquoise 3RT1900- 1SB20
MTBF at 40 °C	1 804 044 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

