←Display product list

6EP1437-2BA20 SITOP PSU300S 24 V/40 A



Product information

Entries

Technical / CAx data

Successor product



Technical specifications

As of 2012-02-25

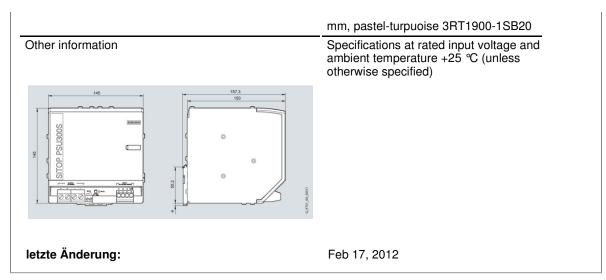


SITOP PSU300S 40A STABILIZED POWER SUPPLY INPUT: 400-500 V 3AC OUTPUT: 24 V DC/40 A

Product	SITOP PSU300S
Power supply, type	24 V/40 A
Input	•
Input	3-phase AC
Rated voltage value Vin rated	400500 V
Voltage range	340550 V
Wide-range input	Yes
Mains buffering at lout rated, min.	6 ms
Mains buffering	at Vin = 400 V
Rated line frequency	50/60 Hz
Rated line range	4763 Hz
Input current / at nominal level of the input voltage 400 V	1.7 A
Input current / at nominal level of the input voltage 500 V	1.5 A
Switch-on current limiting (+25 °C), max.	60 A
Inrush current A ² s	3.4 A ² ·s
Built-in incoming fuse	none
Protection in the mains power input (IEC 898)	Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)
Output	-

Output	controlled, isolated DC voltage
Rated voltage	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	1 %
Static load balancing, approx.	2 %
Residual ripple peak-peak, max.	150 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Adjustment range	2428 V
Product feature / output voltage adjustable	Yes
Output voltage setting	via potentiometer
Note	max. 960 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"
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	1.5 s
Voltage rise, typ.	15 ms
Voltage increase time / of the output voltage / maximum	500 ms
Rated current value lout rated	40 A
Current range	040 A
Note	30 A up to + 70 °C, 48 A up to +45 °C
delivered active power / typ.	960 W
short-term overload current / at short-circuit during run- up / typical	65 A
Duration of overloading ability for excess current / on short-circuiting during the start-up	120 ms
short-term overload current / at short-circuit during operation / typical	65 A
Duration of overloading ability for excess current / on short-circuiting during the operational phase	120 ms
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	91.5 %
Power loss at Vout rated, lout rated, approx.	89 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	3 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	1.5 %
Load step setting time 50 to 100%, typ.	1 ms
Load step setting time 100 to 50%, typ.	1 ms
Setting time / maximum	10 ms
Protection and monitoring	·
Output overvoltage protection	Yes, according to EN 60950
Current limitation, typ.	50 A
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Electronic shutdown, automatic restart

Enduring short circuit current / Effective level / maximum	14 A
Enduring short circuit current / Effective level / typical	_
• Note	overload capability 150 % lout rated up to 5 s/min
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra low output voltage Vout according to EN 60950-1 and EN 50178
Protection class	Class I
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
Explosion protection	ATEX (EX) II 3G Ex nA nC IIC T3
CB approval	Yes
Marine approval	GL
Degree of protection (EN 60529)	IP20
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	070 ℃
Note	with natural convection
Ambient temparature / on transport	-40+85 ℃
Ambient temparature / in storage	-40+85 ℃
Humidity class according to EN 60721	Climate class 3K3, no condensation
Mechanics	_
Connection technology	screw-type terminals
Connections / Supply input	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm ² single-core/finely stranded
Connections / Output	+, -: 2 screw terminals each for 0.5 10 mm ²
Connections / Auxiliary	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm ²
Width / of the housing	150 mm
Height / of the housing	145 mm
Depth / of the housing	150 mm
Installation width	150 mm
Mounting height	225 mm
Weight, approx.	3.7 kg
Product feature / of the housing / housing for side-by-side mounting	Yes
Type of mounting / wall mounting	No
Type of fixing / cap rail mounting	Yes
Type of mounting / S7-300 rail mounting	No
Installation	Snaps onto DIN rail EN 60715 35x15
Mechanical accessories	Device identification label 20 mm × 7



This entry is available in the following languages:

→ German → French → Italian → Spanish → Chinese

→ Copy link → Send to a friend

→□Print

© Siemens AG 2012 - Corporate Information - Privacy Policy - Terms of Use