SIEMENS

Product data sheet 6EP1437-3BA10



SITOP PSU300M 40 STABILIZED POWER SUPPLY INPUT: 400-500 V 3 AC OUTPUT: 24 V DC/40 A

SITOP PSU300M
24 V/40 A
3-phase AC
400 500 V
320 575 V
Yes
15 ms
at Vin = 400 V
50 / 60 Hz
47 63 Hz
2.6 A
2.1 A
56 A
2.24 A²-s
none
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	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.	100 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV
Adjustment range	24 28.8 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.	2.5 s
Voltage increase time / of the output voltage / maximum	500 ms
Rated current value lout rated	40 A
Current range	0 40 A
• Note	25 A up to +70 °C
delivered active power / typ.	960 W
constant overload current / at short-circuit during run-up / typical	44 A
short-term overload current / at short-circuit during operation / typical	120 A
Duration of overloading ability for excess current / on short-circuiting during the operational phase	25 ms
Parallel switching for enhanced performance	Yes
• Note	switchable characteristic
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	92 %
Power loss at Vout rated, lout rated, approx.	83 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	1 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	3 %
Setting time / maximum	10 ms
Protection and monitoring	
Output overvoltage protection	< 35 V
Current limitation, typ.	44 A
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Alternatively, constant current characteristic approx. 44 A or latching shutdown

Enduring short circuit current / Effective level / typical	44 A
• Note	overload capability 150 % lout rated up to 5 s/min
Overload/short-circuit indicator	LED yellow for "overload", LED red for "latching shutdown"
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
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Explosion protection	in preparation
FM approval	-
CB approval	No
Marine approval	GL, ABS
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	-25 +70 °C
• Note	with natural convection
Ambient temparature / on transport	-40 +85 °C
Ambient temparature / in storage	-40 +85 °C
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 mm² single-core/finely stranded
Connections / Output	+, -: 2 screw terminals each for 0.33 10 mm²
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	125 mm
Depth / of the housing	150 mm
Installation width	150 mm
Mounting height	225 mm
Weight, approx.	3.4 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
Electrical accessories	Buffer module
Mechanical accessories	Device identification label 20 mm × 7 mm, pastel-turpuoise 3RT1900 -1SB20
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)
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