6EP3436-8SB00-0AY0

Data sheet

Input



SITOP PSU8200/3AC/24VDC/20A

SITOP PSU8200 24 V/20 A Stabilized power supply input: 3 AC 400-500 V output: 24 V DC/20 A

Input	3-phase AC
Rated voltage value Vin rated	400 500 V
Voltage range AC	320 575 V
Wide-range input	Yes
Mains buffering	at Vin = 400 V
Mains buffering at lout rated, min.	15 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	
 at rated input voltage 400 V 	1.2 A
 at rated input voltage 500 V 	1 A
Switch-on current limiting (+25 °C), max.	16 A
I²t, max.	0.8 A ² ·s
Built-in incoming fuse	none
Protection in the mains power input (IEC 898)	Required: 3-pole connected miniature circuit breaker 6 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 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.	0.2 %
Residual ripple peak-peak, max.	100 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV
Adjustment range	24 28 V
product function output voltage adjustable	Yes
Output voltage setting	via potentiometer; max. 480 W
	0 1504 0414014
Status display	Green LED for 24 V OK
Status display Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
Signaling On/off behavior	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" No overshoot of Vout (soft start)
Signaling On/off behavior Startup delay, max.	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" No overshoot of Vout (soft start) 2.5 s

Note	+60 +70 °C: Derating 2%/K
supplied active power typical	480 W
short-term overload current	
at short-circuit during operation typical	60 A
duration of overloading capability for excess current	
at short-circuit during operation	25 ms
constant overload current	25 110
on short-circuiting during the start-up typical	22 A
Parallel switching for enhanced performance	Yes; switchable characteristic
Numbers of parallel switchable units for enhanced	2
performance	
Efficiency	
Efficiency at Vout rated, lout rated, approx.	94 %
Power loss at Vout rated, lout rated, approx.	31 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.1 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	1 %
Load step setting time 50 to 100%, typ.	0.2 ms
Load step setting time 100 to 50%, typ.	0.2 ms
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	2 %
Load step setting time 10 to 90%, typ.	0.2 ms
Load step setting time 90 to 10%, typ.	0.2 ms
setting time maximum	10 ms
Protection and monitoring	
Output overvoltage protection	< 32 V
Current limitation, typ.	22 A
property of the output short-circuit proof	Yes
Short-circuit protection	Alternatively, constant current characteristic approx. 22 A or latching
Short-Great protection	shutdown
enduring short circuit current RMS value	
• typical	22 A
overcurrent overload capability in normal operation	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
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
Protection class	Class I
leakage current	
• maximum	3.5 mA
typical	0.9 mA
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; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
Explosion protection	IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC IIC T4 Gc; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4
certificate of suitability NEC Class 2	No
FM approval	-
CB approval	Yes
certificate of suitability EAC approval	Yes
Marine approval	ABS, DNV GL
EMC	.,
Emitted interference	EN 55022 Class B
	EN 61000-3-2
Supply harmonics limitation Noise immunity	EN 61000-3-2 EN 61000-6-2
	LIX 0 1000-0-2
environmental conditions	
ambient temperature	

 during operation 	-25 +70 °C
— Note	With natural convection; startup tested starting from -40 °C nominal voltage
 during transport 	-40 +85 °C
during storage	-40 +85 °C
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: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
Output	+, -: 2 screw terminals each for 0.2 4 mm²
Auxiliary	13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm²
width of the enclosure	70 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.	1.2 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, TI-grey 3RT2900-1SB20
MTBF at 40 °C	590 573 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

