6EP3446-8SB00-0AY0

Data sheet

SITOP PSU8200/3AC/48VDC/10A



SITOP PSU8200 48 V/10 A Stabilized power supply input: 3 AC 400-500 V output: 48 V DC/10 A

3-phase AC
400 500 V
320 575 V
Yes
at Vin = 400 V
15 ms; at Vin = 400 V
50 Hz
60 Hz
47 63 Hz
1.2 A
1 A
16 A
0.8 A ² ·s
none
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)
Controlled, isolated DC voltage
48 V
3 %
0.1 %
0.2 %
100 mV
200 mV
42 56 V
Yes
via potentiometer; max. 480 W
Green LED for 48 V OK
Relay contact (NO contact, rating 60 V DC/ 0.3 A) for 48 V OK
Relay Contact (NO Contact, fating 60 V DC/ 0.5 A) 101 46 V OK
No overshoot of Vout (soft start)

Rated current value lout rated	10 A
Current range	0 10 A
Note	+60 +70 °C: Derating 2%/K
supplied active power typical	480 W
short-term overload current	100 11
at short-circuit during operation typical	30 A
duration of overloading capability for excess current	00 A
at short-circuit during operation	25 ms
constant overload current	20 110
on short-circuiting during the start-up typical	11 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	< 60 V
Current limitation, typ.	11 A
property of the output short-circuit proof	Yes
Short-circuit protection	Alternatively, constant current characteristic approx. 11 A or latching
Short-circuit protection	shutdown
enduring short circuit current RMS value	
• typical	11 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
(55, 1) approval	(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; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD,
contilinate of quitability NEO Ol O	T4
certificate of suitability NEC Class 2	No
FM approval	- Voo
CB approval	Yes
certificate of suitability EAC approval	Yes ARS DNIV CL
Marine approval	ABS, DNV GL
EMC	EN FROM CL. D
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2

environmental conditions	
ambient temperature	
during operation	-25 +70 °C
— Note	with natural convection
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 mm ²
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
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

