SIEMENS

Data sheet _____6EP1336-3BA00

SITOP MODULAR 24 V/20 A SITOP modular 20 A stabilized power supply input: 120/230 V AC output: 24 V DC/20 A



Figure similar

Input	
Input	1-phase AC
Supply voltage	
1 at AC Rated value	120 V
• 2 at AC Rated value	230 V
• Note	Set by means of wire jumper on the device; starting from Vin > 93/183 V
Input voltage	
● 1 at AC	85 132 V
• 2 at AC	176 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering at lout rated, min.	20 ms; at Vin = 230 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 	7.7 A
• at rated input voltage 230 V	3.5 A
Switch-on current limiting (+25 °C), max.	60 A
I²t, max.	9.9 A ^{2.} s
Built-in incoming fuse	Yes
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker at 1-phase operation: 10 A characteristic C; required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2411-1JA10 (120 V) or 3RV2411-1FA10 (230 V)

Output	
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.	0.1 %
Residual ripple peak-peak, max.	100 mV
Residual ripple peak-peak, typ.	30 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz)	60 mV
Adjustment range	24 28.8 V
Product function Output voltage adjustable	Yes
Output voltage setting	via potentiometer
Status display	Green LED for 24 V OK
Signaling	via signaling module (6EP1961-3BA10)
On/off behavior	Overshoot of Vout approx. 3 %
Startup delay, max.	0.1 s
Voltage rise, typ.	50 ms
Rated current value lout rated	20 A
Current range	0 20 A
• Note	+60 +70 °C: Derating 3.5%/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	
• on short-circuiting during the start-up typical	23 A
Parallel switching for enhanced performance	Yes; switchable characteristic
Numbers of parallel switchable units for enhanced	2
performance	
Efficiency	

Efficiency	
Efficiency at Vout rated, lout rated, approx.	89 %
Power loss at Vout rated, lout rated, approx.	59 W

Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %),	1 %
max.	
Dynamic load smoothing (lout: 50/100/50 %), Uout ±	2 %
typ.	
Load step setting time 50 to 100%, typ.	2 ms
Load step setting time 100 to 50%, typ.	2 ms
Setting time maximum	5 ms
Protection and monitoring	
Output overvoltage protection	< 35 V
Current limitation, typ.	23 A
Property of the output Short-circuit proof	Yes
Short-circuit protection	Alternatively, constant current characteristic approx. 23 A or
	latching shutdown
Enduring short circuit current RMS value	
• typical	23 A
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 Uout acc. to EN 60950-1 and EN
	50178
Protection class	Class I
Leakage current	
• maximum	3.5 mA
• typical	0.4 mA
CE mark	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Explosion protection	IECEx Ex nA nC IIC T3 Gc; ATEX (EX) II 3G Ex nA nC IIC T3 Gc;
	cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2,
FM approval	Group ABCD, T3
• • • • • • • • • • • • • • • • • • • •	- No.
CB approval	No CLARS
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	
during operation	0 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, no condensation

Mechanics	
Connection technology	screw-type terminals
Connections	
Supply input	L, N, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
Output	+, -: 2 screw terminals each for 0.5 4 mm ²
Auxiliary	-
Width of the enclosure	160 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.	2.2 kg
Product feature of the enclosure housing for side-by- side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
Electrical accessories	Buffer module, signaling module
MTBF at 40 °C	786 164 h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)