MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

6EP1336-2BA00

SITOP POWER 20 REGULATED SUPPLY

Used with the applicable SITOP Power 20 configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens 6EP1336-2BA00 manufacturer technical data; applicable specification pages.

SIEMENS

Product data sheet 6EP1336-2BA00



SITOP POWER 20 STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V DC/20 A

Technical specifications	
Product	SITOP power
Power supply, type	24 V/20 A
Input	
Input	1-phase AC
Supply voltage / 1 / at AC / nominal value	120 V
Supply voltage / 2 / at AC / nominal value	230 V
Voltage range	
• Note	Set by means of wire jumper on the device
Input voltage / 1 / at AC	93 … 132 V
Input voltage / 2 / at AC	187 … 264 V
Wide-range input	No
Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Mains buffering at Iout rated, min.	10 ms
Mains buffering	at Vin = 93/187 V
Rated line frequency	50 / 60 Hz
Rated line range	47 ... 63 Hz
Input current / at nominal level of the input voltage 120 V	8 A
Input current / at nominal level of the input voltage 230 V	3.3 A
Switch-on current limiting (+25 °C), max.	81 A
I^2t, max.	8 $A^2 \cdot s$

subject to modifications
© Copyright Siemens AG 2012

Built-in incoming fuse	T 10 A (not accessible)
Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 16 A, characteristic C
Output	
Output	Controlled, isolated DC voltage
Rated voltage Vout DC	24 V
Total tolerance, static ±	3 %
Residual ripple peak-peak, max.	150 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Adjustment range	22.8 … 26.4 V
Product feature / output voltage adjustable	Yes
Output voltage setting	via potentiometer
• Note	only permissible at ambient temperatur 0 °C to +45 °C
Status display	Green LED for 24 V OK
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	3 s
Voltage rise, typ.	80 ms
Rated current value Iout rated	20 A
Current range	0 … 20 A
delivered active power / typ.	480 W
constant overload current / at short-circuit during run-up / typical	20 A
constant overload current / at short-circuit during operation / typical	20 A
Parallel switching for enhanced performance	Yes
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, Iout rated, approx.	87 %
Power loss at Vout rated, Iout rated, approx.	72 W
Closed-loop control	
Protection and monitoring	
Output overvoltage protection	Yes, according to EN 60950
Current limitation, typ.	22 A
Characteristic feature of the output / short-circuit protected	Yes
Short-circuit protection	Constant current characteristic
Enduring short circuit current / Effective level / maximum	22 A
Overload/short-circuit indicator	-
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra low output voltage Vout according to EN 60950-1
Protection class	Class I
stray current / maximum	3.5 mA

© Copyright Siemens AG 2012

CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	UL-Listed (UL 508), File E143289, CSA (CSA 22.2 No. 14-95)
Explosion protection	-
FM approval	-
CB approval	No
Marine approval	-
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	0 … 55 °C
• Note	with natural convection
Ambient temparature / on transport	-25 … +85 °C
Ambient temparature / in storage	-25 … +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 0.5 ... 2.5 mm² single-core/finely stranded
Connections / Output	L+: 1 screw terminal for 0.33 ... 10 mm²; M: 2 screw terminals for 0.33 ... 10 mm²
Connections / Auxiliary	-
Width / of the housing	280 mm
Height / of the housing	125 mm
Depth / of the housing	92 mm
Installation width	320 mm
Mounting height	225 mm
Weight, approx.	2.4 kg
Product feature / of the housing / housing for side-by-side mounting	No
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 35x7.5/15
Mechanical accessories	Mounting bracket 90° (6EP1971-2BA00)
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

© Copyright Siemens AG 2012