



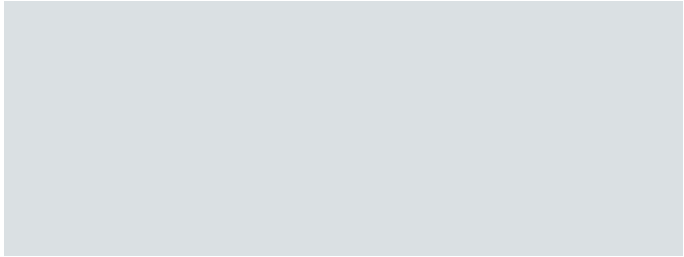
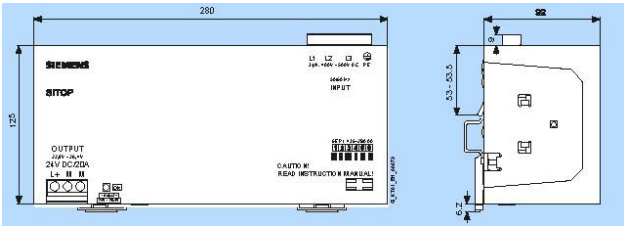
SITOP POWER 20 STABILIZED POWER SUPPLY INPUT:
120/230 V AC OUTPUT: 24 V DC/20 A

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 lout 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
I²t, max.	8 A²·s

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 V_{out} DC	24 V
Total tolerance, static \pm	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 V_{out} (soft start)
Startup delay, max.	3 s
Voltage rise, typ.	80 ms
Rated current value I_{out} 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 V_{out} rated, I_{out} rated, approx.	87 %
Power loss at V_{out} rated, I_{out} 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 V_{out} according to EN 60950-1
Protection class	Class I
stray current / maximum	3.5 mA

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 temperature / on transport	-25 ... +85 °C
Ambient temperature / 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 mm ² single-core/finely stranded
Connections / Output	L+: 1 screw terminal for 0.33 ... 10 mm ² ; M: 2 screw terminals for 0.33 ... 10 mm ²
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)



letzte Änderung:

Oct 19, 2012