



Figure similar

SITOP PSU200M/1-2AC/24VDC/5A/CO

SITOP PSU200M plus 5 A Stabilized power supply input: AC 120-230/230-500 V output: 24 V DC/5 A Option for with protective varnish

Input	
type of the power supply network	1-phase and 2-phase AC
supply voltage at AC	Set by means of selector switch on the device; starting from $V_{in} > 90/180$ V
<ul style="list-style-type: none"> initial value 	
supply voltage	120 ... 230 V
<ul style="list-style-type: none"> 1 at AC 2 at AC 	
input voltage	230 ... 500 V
<ul style="list-style-type: none"> 1 at AC 2 at AC 	
design of input wide range input	Yes
overvoltage overload capability	1300 V _{peak} , 1.3 ms
operating condition of the mains buffering	at $V_{in} = 120/230$ V, typ. 150 ms at $V_{in} = 400$ V
buffering time for rated value of the output current in the event of power failure minimum	25 ms
operating condition of the mains buffering	at $V_{in} = 120/230$ V, typ. 150 ms at $V_{in} = 400$ V
line frequency	50 Hz
<ul style="list-style-type: none"> 1 rated value 2 rated value 	
line frequency	60 Hz
input current	47 ... 63 Hz
<ul style="list-style-type: none"> at rated input voltage 120 V at rated input voltage 230 V at rated input voltage 500 V 	2.2 A
current limitation of inrush current at 25 °C maximum	1.2 A
I ² t value maximum	0.61 A
fuse protection type	35 A
<ul style="list-style-type: none"> in the feeder 	1.7 A ² ·s
	T 3.15 A (not accessible)
	Recommended miniature circuit breaker at 1-phase operation: from 6 A (10 A) characteristic C (B); required at 2-phase operation: circuit breaker 2-pole connected or circuit breaker 3RV2011-1EA10 (setting 3.8 A) or 3RV2711-1ED10 (UL 489) at 230 V; 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) at 400/500 V
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	24 V
<ul style="list-style-type: none"> at output 1 at DC rated value 	
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	

<ul style="list-style-type: none"> on slow fluctuation of input voltage 	0.1 %
<ul style="list-style-type: none"> on slow fluctuation of ohm loading 	0.1 %
residual ripple	
<ul style="list-style-type: none"> maximum 	50 mV
voltage peak	
<ul style="list-style-type: none"> maximum 	200 mV
adjustable output voltage	24 ... 28.8 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
display version for normal operation	Green LED for 24 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
behavior of the output voltage when switching on	Overshoot of Vout approx. 3 %
response delay maximum	1 s
voltage increase time of the output voltage	
<ul style="list-style-type: none"> typical 	50 ms
output current	
<ul style="list-style-type: none"> rated value 	5 A
<ul style="list-style-type: none"> rated range 	0 ... 5 A
supplied active power typical	120 W
short-term overload current	
<ul style="list-style-type: none"> at short-circuit during operation typical 	15 A
duration of overloading capability for excess current	
<ul style="list-style-type: none"> at short-circuit during operation 	25 ms
constant overload current	
<ul style="list-style-type: none"> on short-circuiting during the start-up typical 	6 A
product feature	
<ul style="list-style-type: none"> bridging of equipment 	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	88 %
power loss [W]	
<ul style="list-style-type: none"> at rated output voltage for rated value of the output current typical 	17 W
<ul style="list-style-type: none"> during no-load operation maximum 	4 W
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.1 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	3 %
setting time	
<ul style="list-style-type: none"> load step 50 to 100% typical 	2 ms
<ul style="list-style-type: none"> load step 100 to 50% typical 	2 ms
setting time	
<ul style="list-style-type: none"> maximum 	5 ms
Protection and monitoring	
design of the overvoltage protection	< 35 V
response value current limitation typical	6 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Alternatively, constant current characteristic approx. 5.5 A or latching shutdown
enduring short circuit current RMS value	
<ul style="list-style-type: none"> typical 	6 A
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
operating resource protection class	Class I
leakage current	
<ul style="list-style-type: none"> maximum 	3.5 mA
<ul style="list-style-type: none"> typical 	0.25 mA

protection class IP	IP20
Approvals	
certificate of suitability	
<ul style="list-style-type: none"> • CE marking • UL approval • CSA approval • cCSAus, Class 1, Division 2 • ATEX 	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 No No
certificate of suitability	
<ul style="list-style-type: none"> • IECEX • NEC Class 2 • ULhazloc approval • FM registration 	No No No No
type of certification CB-certificate	No
certificate of suitability	
<ul style="list-style-type: none"> • EAC approval 	Yes
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • DNV GL • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK) 	Yes No Yes No No
EMC	
standard	
<ul style="list-style-type: none"> • for emitted interference • for mains harmonics limitation • for interference immunity 	EN 55022 Class B EN 61000-3-2 EN 61000-6-2
environmental conditions	
ambient temperature	
<ul style="list-style-type: none"> • during operation • during transport • during storage 	-25 ... +70 °C; with natural convection -40 ... +85 °C -40 ... +85 °C
environmental category acc. to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
<ul style="list-style-type: none"> • at input • at output • for auxiliary contacts 	L, N, PE: 1 screw terminal each for 0.2 ... 2.5 mm ² single-core/finely stranded +, -: 2 screw terminals each for 0.2 ... 2.5 mm ² 13, 14 (alarm signal): 1 screw terminal each for 0.14 ... 1.5 mm ²
width of the enclosure	70 mm
height of the enclosure	125 mm
depth of the enclosure	121 mm
required spacing	
<ul style="list-style-type: none"> • top • bottom • left • right 	50 mm 50 mm 0 mm 0 mm
net weight	0.6 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Buffer module
MTBF at 40 °C	1 123 973 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

