6EP3436-8SB00-2AY0

## **Data sheet**

Input



## SITOP PSU8600/3AC/24VDC/20A PN

SITOP PSU8600 3AC 20A PN Stabilized power supply Input: 400-500 V 3 AC output: 24 V DC/20 A with PN/IE connection Integrated web server OPC UA server integrated

Input	3-phase AC
Rated voltage value Vin rated	400 500 V
Voltage range AC	320 575 V
<ul><li>Note</li></ul>	Derating 320 360 and 530 575 V
Wide-range input	Yes
Mains buffering	at Vin = 400 V; Prioritized supply to the output on power failure via DIP switch can be selected (only with expansion module CNX8600)
Mains buffering at lout rated, min.	15 ms; at Vin = 400 V; Prioritized supply to the output on power failure via DIP switch can be selected (only with expansion module CNX8600)
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 63 Hz
input current	
<ul> <li>at rated input voltage 400 V</li> </ul>	1.4 A
<ul> <li>at rated input voltage 500 V</li> </ul>	1.1 A
Switch-on current limiting (+25 °C), max.	14 A
I²t, max.	1.2 A <sup>2</sup> ·s
Built-in incoming fuse	none
Protection in the mains power input (IEC 898)	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)
Output	
Output	Controlled, isolated DC voltage
number of outputs	1
Rated voltage Vout DC	24 V
output voltage at output 1 at DC rated value	24 V
Total tolerance, static ±	3 %
Static mains compensation, approx.	0.2 %
Static load balancing, approx.	0.1 %
Residual ripple peak-peak, max.	100 mV
Spikes peak-peak, max. (bandwidth: 20 MHz)	200 mV
Adjustment range	4 28 V
product function output voltage adjustable	Yes
Output voltage setting	via potentiometer or IE/PN interface; Derating > 24 V: 4%/V; max. 480 W overall system
Status display	3-color LED for operating state device; LED for operating mode manual/remote; 4 LEDs for communication PROFINET; 3-color LED for operating state output

Signaling	Relay contact (changeover contact, contact current capacity DC 60
On/off behavior	V/0.3 A) for "Operating state OK"  No overshoot of Vout (soft start)
Startup delay, max.	1 s
connection of outputs operating	Simultaneous connecting-in of all outputs after device booting or delay time of 25 ms, 100 ms or "load-optimized" for sequential cutting-in of the outputs via DIP switches can be set (only with expansion module CNX8600)
voltage increase time of the output voltage maximum	500 ms
Rated current value lout rated	20 A
output current	
• per output	20 A
<ul> <li>at output 1 rated value</li> </ul>	20 A
Current range	0 20 A
• Note	+50 +60 °C: Derating 2.5%/K; no derating in connection with expansion module CNX8600 and total load of the outputs at the basic device max. 240 W
supplied active power typical	480 W
short-term overload current	
<ul> <li>at short-circuit during operation typical</li> </ul>	60 A
• note	only in operation without CNX8600 extension module
duration of overloading capability for excess current	
at short-circuit during operation	25 ms
Parallel switching for enhanced performance	Yes; suitable output characteristics via DIP switch can be selected
Numbers of parallel switchable units for enhanced performance	2
Efficiency	
Efficiency at Vout rated, lout rated, approx.	93 %
Power loss at Vout rated, lout rated, approx.	34 W
power loss [W] during no-load operation maximum	12 W
Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.1 %
Dynamic load smoothing (lout: 50/100/50 %), Uout ± typ.	0.4 %
setting time maximum	10 ms
Protection and monitoring	
Output overvoltage protection	max. 35 V (max. 500 ms)
property of the output short-circuit proof	Yes
Short-circuit protection	Electronic overload shutdown; optional constant-current operation can be selected via DIP switch
adjustable response value current of current-dependent	2 20 A
overload trip	in the standard of EVDA 11 to 5
type of threshold value setting	via potentiometer or IE/PN interface
characteristics of electronic overload switch-off	la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms
characteristics of constant current operation	la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous
Reset	via sensor or IE/PN interface
Remote reset	Non-electrically isolated 24 V input (signal level "high" at > 15 V)
overcurrent overload capability in normal operation	Total system overloadable 150% la rated to 5 s/min
Overload/short-circuit indicator	3-color LED for operating state device; 3-color LED for operating state output
nterface	
	Tthe are at/DDOCINICT
Specification interface	Ethernet/PROFINET
design of the interface PROFINET protocol	Yes
·	
design of the interface PROFINET protocol	Yes
design of the interface PROFINET protocol protocol is supported OPC UA	Yes
design of the interface PROFINET protocol protocol is supported OPC UA Safety	Yes Yes

• maximum	3.5 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
OLICOL (COA) approvai	(CSA C22.2 No. 60950-1, UL 60950-1)
certificate of suitability NEC Class 2	No
CB approval	Yes
certificate of suitability EAC approval	Yes
Marine approval	ABS, DNV GL
EMC	
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 +60 °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	Plug-in terminals with screwed connection
Connections	
<ul> <li>Supply input</li> </ul>	L1, L2, L3, PE: Plug-in terminal with 1 screwed connection each for 0.2
	4 mm² single-wire / fine stranded
Output	Output: plug-in terminals with 2 screw connectors for 0.2 4 mm²; 0 V: screw terminal with 3 screw connectors for 0.2 4 mm²
Auxiliary	RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 1.5 mm²
signaling contact	11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed connection each for 0.2 1.5 mm²
product function	
<ul> <li>removable terminal at input</li> </ul>	Yes
removable terminal at output	Yes
design of the interface for communication	PROFINET/Ethernet: two RJ45 sockets (2-port switch)
suitability for interaction modular system	Yes
width of the enclosure	80 mm
height of the enclosure	125 mm
depth of the enclosure	150 mm
required spacing	
<ul> <li>top</li> </ul>	50 mm
<ul><li>bottom</li></ul>	50 mm
• left	0 mm
• right	0 mm
Weight, approx.	1.8 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Snaps onto DIN rail EN 60715 35x15
electrical accessories	Expansion modules CNX8600, buffer modules BUF8600, module UPS8600
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
MTBF at 40 °C	298 979 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

