6EP3437-8MB00-2CY0

## **Data sheet**



## SITOP PSU8600/3AC/24VDC/40A/4X10A PN

SITOP PSU8600 3AC 40 A/4x10 A PN stabilized power supply input: 400-500 V 3 AC output: 24 V DC/40 A/4x 10 A with PN/IE connection web server integrated OPC UA server integrated \*Ex approval no longer available\*

supply voltage at AC  * minimum rated value  * maximum rated value  * initial value  * operating condition of the mains buffering  * initial value value of the output current in the event of power failure an initial value of the output current in the event of year and initial value of the output current in the event of power failure minimum  * operating condition of the mains buffering  * in tated value of the output current in the event of year and initial value of the output current in the event of year and initial value of the output current of year and initial value of year and year	Input	
minimum rated value     maximum rated value     initial value     initial value     full-scale value     full-scale value     full-scale value     initial value     init	type of the power supply network	3-phase AC
* maximum rated value     * initial value     * initial value     * full-scale value     * full-scale value     * full-scale value     * operating condition of the mains buffering     * ves     * operating condition of the mains buffering     * via DIP switch  buffering time for rated value of the output current in the event of power failure rated input minimum  operating condition of the mains buffering     * via DIP switch  15 ms  porerating condition of the mains buffering     * via DIP switch  15 ms  at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  15 ms  porerating condition of the mains buffering  at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  15 ms  15 ms  at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  15 ms  41 ms 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  15 ms  42 vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  15 ms  42 vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  15 ms  42 vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  15 ms  42 vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  15 ms  42 vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  15 ms  42 vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  15 ms  4 vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  15 ms  4 vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  15 ms  15 ms  22 vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  15 ms  22 vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch	supply voltage at AC	
Initial value I	minimum rated value	400 V
design of input wide range input Operating condition of the mains buffering Unifering time for rated value of the output current in the event of power failure minimum Operating condition of the mains buffering Operating condition of the output voltage O	<ul> <li>maximum rated value</li> </ul>	500 V
design of input wide range input  operating condition of the mains buffering  at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  buffering time for rated value of the output current in the event of power failure minimum  operating condition of the mains buffering  at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  50 Hz 60 Hz 60 Hz 60 Hz 60 Hz 60 Hz 61 Hz A Hz 61 H	• initial value	320 V; Derating 320 360 and 530 575 V
operating condition of the mains buffering  at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  buffering time for rated value of the output current in the event of power failure minimum  operating condition of the mains buffering  at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  in at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  in at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  in at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  in the frequency  1 at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  50 Hz  60 Hz  1 at Vin = 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  60 Hz  60 Hz  60 Hz  61 AT A 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  60 Hz  61 AT A 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  60 Hz  61 AT A 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  60 Hz  61 AT A 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  60 Hz  61 AT A 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  60 Hz  61 AT A 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  60 Hz  61 AT A 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  60 Hz  61 AT A 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  60 Hz  61 AT A 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  60 Hz  61 AT A 400 V; Prioritized supply of Output 1 in case of power failure selectable via DIP switch  60 Hz  61 AT A 400 V; Prioritized supply of Output 1 in case of	• full-scale value	575 V
buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering time frequency 1 rated value 2 rated value 2 rated value 3 ob Hz 1 ine frequency 1 ine frequency 2 rated value 3 ob Hz 1 ine frequency 1 ine frequency 2 rated value 3 ob Hz 1 ine frequency 4 rated input voltage 400 V 2 rated input voltage 500 V 3 rate protection type 4 in the feeder 5 or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)  Output  Voltage curve at output voltage at DC rated value 4 voltput voltage 4 at output 1 at DC rated value 4 at output 2 at DC rated value 4 at output 2 at DC rated value 4 at output 2 at DC rated value 4 at output 1 at DC rated value 4 at output 1 at DC rated value 5 at output 1 at DC rated value 4 at output 2 at DC rated value 5 at output 1 at DC rated value 5 at output 2 at DC rated value 5 at output 4 at DC rated value 6 at output 4 at DC rated value 7 at output 4 at DC rated value 8 at output 5 at DC rated value 9 at output 6 at DC rated value 9 at output 7 at DC rated value 9 at output 7 at DC rated value 9 at output 8 at DC rated value 9 at output 9 at DC rated value 9 at output 9 at DC rate	design of input wide range input	Yes
power failure minimum operating condition of the mains buffering line frequency 1 rated value 2 rated value 60 Hz line frequency 47 63 Hz line frequency 1 at rated input voltage 400 V 2.75 A 1 rated input voltage 400 V 2.75 A 1 rated input voltage 500 V 2.2 A current limitation of inrush current at 25 °C maximum 12t value maximum 2.24 A²s fuse protection type 1 in the feeder 1 in the feeder 2 rocircuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)  Output Voltage at DC rated value 24 V 1 at output 1 at DC rated value 24 V 24 V 24 V 24 V 26 voltput 1 at DC rated value 24 V 24 V 26 voltput 1 at DC rated value 24 V 26 voltput 1 at DC rated value 24 V 26 voltput 1 at DC rated value 24 V 25 voltage curve at output 1 at DC rated value 24 V 26 voltput 1 at DC rated value 24 V 26 voltput 1 at DC rated value 24 V 26 voltput 1 at DC rated value 24 V 26 voltput 1 at DC rated value 26 voltput voltage 27 voltage are voltput 1 at DC rated value 28 voltput voltage 29 voltput voltage 20 voltput voltage 20 voltput voltage 21 voltput voltage 22 voltput voltage 23 voltput voltage 24 voltput voltage 24 voltput voltage 25 voltput voltage 26 voltput voltage 27 voltput voltage 28 voltput voltage 29 voltput voltage 29 voltput voltage 20 voltput voltage 20 voltput voltage 20 voltput voltage 21 voltput voltage 22 voltput voltage 23 voltput voltage 24 voltput voltput voltage 25 voltput voltage 26 voltput voltage 27 voltput voltage 28 voltput voltage 29 voltput voltage 29 voltput voltage 20 voltput voltage 20 voltput voltput voltage 20 voltput voltage	operating condition of the mains buffering	
line frequency  1 rated value 50 Hz 60 Hz line frequency 47 63 Hz line frequency 48 trated input voltage 400 V 40 tar tated input voltage 500 V 2.2 A current limitation of inrush current at 25 °C maximum 12 t value maximum 2.24 A²-s fuse protection type in the feeder line frequency  voltage curve at output  voltage curve at output  voltage curve at output  controlled, isolated DC voltage  at output voltage at DC rated value 24 V 24 V 24 V 24 V 24 V 24 V 26 at output 3 at DC rated value 24 V 24 V 24 V 24 V 25 C V 26 V 27 C V 28 C V 29 C V 29 C V 29 C V 20 C V		15 ms
• 1 rated value • 2 rated value  60 Hz  line frequency 47 63 Hz  input current • at rated input voltage 400 V • at rated input voltage 500 V 2.2 A  current limitation of inrush current at 25 °C maximum 14 A  12t value maximum 2.24 A²-s  fuse protection type • in the feeder none • in the feeder  coricruit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)  Output  voltage curve at output voltage at DC rated value 24 V  output voltage • at output 1 at DC rated value • at output 1 at DC rated value • at output 2 at DC rated value • at output 3 at DC rated value • at output 4 at DC rated value • at output 5 AC  A V	operating condition of the mains buffering	
Prated value     Ine frequency     Input current	line frequency	
line frequency input current  • at rated input voltage 400 V • at rated input voltage 500 V 2.75 A • at rated input voltage 500 V 2.2 A  current limitation of inrush current at 25 °C maximum 14 A 12t value maximum 2.24 A²-s fuse protection type none • in the feeder Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)  Output  voltage curve at output Controlled, isolated DC voltage number of outputs 4 output voltage at DC rated value 24 V output voltage • at output 1 at DC rated value 24 V • at output 2 at DC rated value 24 V • at output 3 at DC rated value 24 V • at output 4 at DC rated value 24 V • at output 4 at DC rated value 24 V • at output 4 at DC rated value 9 at output 4 at DC rated value 9 at output oltage 18 via curve at output oltage 19 via curve at output oltage 10 via curve at output oltage 10 via curve at output 3 via DC rated value 24 V 10 via curve at output 3 via DC rated value 24 V 10 via curve at output 4 at DC rated value 24 V 10 via via via DC rated value 24 V 10 via via via DC rated value 24 V 10 via via via via DC rated value 25 via	• 1 rated value	50 Hz
input current  • at rated input voltage 400 V  • at rated input voltage 500 V  2.2 A  current limitation of inrush current at 25 °C maximum  14 A  12t value maximum  2.24 A²-s  fuse protection type  • in the feeder  none  • in the feeder  voltage curve at output  voltage curve at output  coutput voltage at DC rated value  • at output 1 at DC rated value  • at output 1 at DC rated value  • at output 2 at DC rated value  • at output 3 at DC rated value  • at output 4 at DC rated value  • at output 1 at DC rated value  • at output 1 at DC rated value  • at output 1 otraced value  • at output 1 otraced value  • at output 3 at DC rated value  • at output 3 at DC rated value  • at output 5 at DC rated value  • at output 6 at DC rated value  • at output 7 at DC rated value  • at output 7 at DC rated value  • at output 6 at DC rated value  • at output 7 at DC rated value  • at output 8 at DC rated value  • at output 9 at DC rated value  • at output 10 at DC rated value  • at output 2 at DC rated value  • at output 3 at DC rated value  • at output 3 at DC rated value  • at output 4 at DC rated value  • at output 5 at DC rated value  • at output 6 at DC rated value  • at output 6 at DC rated value  • at output 7 at DC rated value  • at output 6 at DC rated value  • at output 7 at DC rated value  • at output 8 at DC rated value  • at output 9 at DC rated value  • at output 9 at DC rated value  • at output 1 at DC rated value  • at output 3 at DC rated value  • at output 3 at DC rated value  • at output 4 at DC rated value  • at output 5 at DC rated value  • at output 6 at DC rated value  • at output 7 at DC rated value  • at output 8 at DC rated value  • at output 9	• 2 rated value	60 Hz
<ul> <li>at rated input voltage 400 V</li> <li>at rated input voltage 500 V</li> <li>2.2 A</li> <li>current limitation of inrush current at 25 °C maximum</li> <li>14 A</li> <li>12t value maximum</li> <li>2.24 A²-s</li> <li>fuse protection type</li> <li>in the feeder</li> <li>Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)</li> <li>Output</li> <li>voltage curve at output</li> <li>Controlled, isolated DC voltage</li> <li>number of outputs</li> <li>at output voltage at DC rated value</li> <li>at output 1 at DC rated value</li> <li>at output 2 at DC rated value</li> <li>at output 3 at DC rated value</li> <li>at output 3 at DC rated value</li> <li>at output 4 at DC rated value</li> <li>at output 3 at DC rated value</li> <li>at output 4 at DC rated value</li> <li>at output 5 at DC rated value</li> <li>at output 6 at DC rated value</li> <li>at Output 7 at DC rated value</li> <li>at Output 7 at DC rated value</li> <li>at Output 8 at DC rated value</li> <li>at Output 8 at DC rated value</li> <li>at Output 9 at DC rated value</li> <li>at V</li> <li>at Output 9 at DC rated value</li> <li>at V</li> <li>at Output 9 at DC rated value</li> <li>at Output 9 at DC rated value</li> <li>at V</li> <li>at Output 9 at DC rated value</li> <li>at V</li> <li>at V</li> <li>at V</li></ul>	line frequency	47 63 Hz
<ul> <li>at rated input voltage 500 V</li> <li>current limitation of inrush current at 25 °C maximum</li> <li>14 A</li> <li>12t value maximum</li> <li>2.24 A²-s</li> <li>fuse protection type</li> <li>in the feeder</li> <li>Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)</li> </ul> Output Voltage curve at output <ul> <li>controlled, isolated DC voltage</li> <li>number of outputs</li> <li>4</li> <li>output voltage at DC rated value</li> <li>at output 1 at DC rated value</li> <li>at output 2 at DC rated value</li> <li>at output 3 at DC rated value</li> <li>at output 3 at DC rated value</li> <li>at output 4 at DC rated value</li> <li>at output 5 at DC rated value</li> <li>at output 6 at DC rated value</li> <li>at output 7 at DC rated value</li> <li>at output 6 at DC rated value</li> <li>at output 7 at DC rated value</li> <li>at output 7 at DC rated value</li> <li>at output 6 at DC rated value</li> <li>at OC rated value</li> <li>at output 6 at DC rated value</li> <li>at output 7 at DC rated value</li> <li>at output 7 at DC rated value</li> <li>at output 6 at output 7 at DC rated value</li> <li>at output 7 at DC rated value</li> <li>at output 8 at DC rated value</li> <li>at output 9 at DC rated value</li> <li></li></ul>	input current	
current limitation of inrush current at 25 °C maximum  12t value maximum  2.24 A²-s  fuse protection type  in the feeder  Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)  Output  Voltage curve at output  Controlled, isolated DC voltage  number of outputs  4  output voltage at DC rated value  output voltage  at output 1 at DC rated value  at output 2 at DC rated value  at output 3 at DC rated value  at output 3 at DC rated value  at output 4 at DC rated value  24 V  relative overall tolerance of the voltage  on slow fluctuation of input voltage  on slow fluctuation of ohm loading  residual ripple	<ul> <li>at rated input voltage 400 V</li> </ul>	2.75 A
I2t value maximum  fuse protection type  in the feeder  Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)  Output  voltage curve at output  controlled, isolated DC voltage  number of outputs  output voltage at DC rated value  at output 1 at DC rated value  at output 2 at DC rated value  at output 2 at DC rated value  at output 3 at DC rated value  at output 4 at DC rated value  at output 5 at DC rated value  at output 6 at output 7 at DC rated value  at output 7 at DC rated value  24 V  relative overall tolerance of the voltage  relative control precision of the output voltage  on slow fluctuation of input voltage  on slow fluctuation of ohm loading  residual ripple	• at rated input voltage 500 V	2.2 A
fuse protection type	current limitation of inrush current at 25 °C maximum	14 A
e in the feeder  Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)  Output  voltage curve at output Controlled, isolated DC voltage  number of outputs 4  output voltage at DC rated value 24 V  output voltage  • at output 1 at DC rated value 24 V  • at output 2 at DC rated value 24 V  • at output 3 at DC rated value 24 V  relative overall tolerance of the voltage 3 %  relative control precision of the output voltage  • on slow fluctuation of input voltage 0.2 %  • on slow fluctuation of ohm loading 0.1 %  residual ripple	12t value maximum	2.24 A²-s
Output  Voltage curve at output Controlled, isolated DC voltage  number of outputs 4  output voltage at DC rated value 24 V  output 1 at DC rated value 24 V  • at output 2 at DC rated value 24 V  • at output 3 at DC rated value 24 V  • at output 4 at DC rated value 24 V  • at output 4 at DC rated value 24 V  • at output 9 at DC rated value 24 V  • at output 1 output 9 at DC rated value 24 V  • at output 1 output 9 at DC rated value 24 V  • at output 1 output 9 at DC rated value 24 V  relative overall tolerance of the voltage 3 %  relative control precision of the output voltage  • on slow fluctuation of input voltage 0.2 %  • on slow fluctuation of ohm loading 0.1 %  residual ripple	fuse protection type	none
voltage curve at outputs  number of outputs  output voltage at DC rated value  output voltage  • at output 1 at DC rated value  • at output 2 at DC rated value  • at output 3 at DC rated value  • at output 4 at DC rated value  • at output 4 at DC rated value  • at output 7 output 9	• in the feeder	
number of outputs  output voltage at DC rated value  output voltage  • at output 1 at DC rated value  • at output 2 at DC rated value  • at output 3 at DC rated value  • at output 4 at DC rated value  relative overall tolerance of the voltage  • on slow fluctuation of input voltage  • on slow fluctuation of ohm loading  residual ripple	Output	
output voltage  • at output 1 at DC rated value  • at output 2 at DC rated value  • at output 3 at DC rated value  • at output 4 at DC rated value  • at output 4 at DC rated value  • at output 9 at DC rated value  24 V  relative overall tolerance of the voltage  • on slow fluctuation of input voltage  • on slow fluctuation of input voltage  • on slow fluctuation of ohm loading  residual ripple	voltage curve at output	Controlled, isolated DC voltage
output voltage  • at output 1 at DC rated value 24 V  • at output 2 at DC rated value 24 V  • at output 3 at DC rated value 24 V  • at output 4 at DC rated value 24 V  relative overall tolerance of the voltage 3 %  relative control precision of the output voltage  • on slow fluctuation of input voltage 0.2 %  • on slow fluctuation of ohm loading 0.1 %  residual ripple	number of outputs	4
<ul> <li>at output 1 at DC rated value</li> <li>at output 2 at DC rated value</li> <li>at output 3 at DC rated value</li> <li>at output 4 at DC rated value</li> <li>at output 4 at DC rated value</li> <li>relative overall tolerance of the voltage</li> <li>on slow fluctuation of input voltage</li> <li>on slow fluctuation of ohm loading</li> <li>residual ripple</li> </ul>	output voltage at DC rated value	24 V
<ul> <li>at output 2 at DC rated value</li> <li>at output 3 at DC rated value</li> <li>at output 4 at DC rated value</li> <li>at output 4 at DC rated value</li> <li>24 V</li> <li>relative overall tolerance of the voltage</li> <li>relative control precision of the output voltage</li> <li>on slow fluctuation of input voltage</li> <li>on slow fluctuation of ohm loading</li> <li>residual ripple</li> </ul>	output voltage	
at output 3 at DC rated value at output 4 at DC rated value 24 V  relative overall tolerance of the voltage  relative control precision of the output voltage  on slow fluctuation of input voltage  on slow fluctuation of ohm loading  residual ripple  24 V  24 V  26 V  27 V  28 V  29 V  20 V  20 V  30 V  20 V  20 V  40 V  4	at output 1 at DC rated value	24 V
<ul> <li>at output 4 at DC rated value</li> <li>relative overall tolerance of the voltage</li> <li>relative control precision of the output voltage</li> <li>on slow fluctuation of input voltage</li> <li>on slow fluctuation of ohm loading</li> <li>residual ripple</li> </ul> 24 V 3 % 0.2 % 0.1 % residual ripple	at output 2 at DC rated value	24 V
relative overall tolerance of the voltage  relative control precision of the output voltage  on slow fluctuation of input voltage  on slow fluctuation of ohm loading  residual ripple  3 %  0.2 %  0.1 %	at output 3 at DC rated value	24 V
relative control precision of the output voltage  on slow fluctuation of input voltage on slow fluctuation of ohm loading  residual ripple  0.2 %  0.1 %	at output 4 at DC rated value	24 V
relative control precision of the output voltage  on slow fluctuation of input voltage on slow fluctuation of ohm loading  residual ripple  0.2 %  0.1 %	relative overall tolerance of the voltage	3 %
• on slow fluctuation of ohm loading  residual ripple  0.1 %		
on slow fluctuation of ohm loading     residual ripple	on slow fluctuation of input voltage	0.2 %
residual ripple	· · · · · · · · · · · · · · · · · · ·	0.1 %
		100 mV

voltage peak	000 14
• maximum	200 mV
adjustable output voltage	4 28 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer or IE/PN interface; Derating > 24 V: 4%/V; max. 240 W per output, max. 960 W overall system
display version for normal operation	3-color LED for operating state device; LED for operating mode manual/remote 4 LEDs for communication PROFINET; 3-color LED per output for operating state output; LED green for parallel operation Output 1 and 2 / 3 and 4
type of signal at output	Relay contact (changeover contact, contact current capacity DC 60 V/0.3 A) fo "Operating state OK"
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	1 s; Without on-delay of the outputs
type of outputs connection	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
voltage increase time of the output voltage	
• maximum	500 ms
output current	
• rated value	40 A
• per output	10 A
at output 1 rated value	10 A
at output 2 rated value	10 A
at output 3 rated value	10 A
at output 4 rated value	10 A
• rated range	0 40 A; +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
aunnlied active neuror trained	max. 480 W
supplied active power typical	960 W
product feature  ● parallel switching of outputs	Yes; Parallel circuit Output 1 with 2 or Output 3 with 4 can be selected via DIP switch
<ul> <li>bridging of equipment</li> </ul>	No
fficiency	
efficiency in percent	93 %
power loss [W]	
at rated output voltage for rated value of the output current typical	72 W
during no-load operation maximum	20 W
losed-loop control	
relative control precision of the output voltage with rapid	0.1 %
fluctuation of the input voltage by +/- 15% typical relative control precision of the output voltage load step of	0.4 %
resistive load 50/100/50 % typical setting time	0.1 /0
maximum	10 ms
rotection and monitoring	10 110
<u> </u>	may 25 \/ /may 500 ma)
design of the overvoltage protection	max. 35 V (max. 500 ms)
property of the output short-circuit proof design of short-circuit protection	Yes  electronic overload cut-off; optionally constant current operation can be selected for Output 4 via DIP switches
adjustable current response value current of the current- dependent overload release	selected for Output 4 via DIP switches  0.5 10 A
type of response value setting	via potentiometer or IF/PN interface
·	via potentiometer or IE/PN interface
type of response value setting switching characteristic  • of the excess current	via potentiometer or IE/PN interface  la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms
switching characteristic	la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold)
witching characteristic     of the excess current     of the current limitation	la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold
switching characteristic	la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous via sensor per output or IE/PN interface
switching characteristic	la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous via sensor per output or IE/PN interface Non-electrically isolated 24 V input (signal level "high" at > 15 V)
witching characteristic     of the excess current	la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous via sensor per output or IE/PN interface
switching characteristic	la >1.0<1.5 x la threshold permissible for 5 s; la limit (= 1.5 x la threshold) permissible for 200 ms la limit (= 1.5 x la threshold) permissible for 5 s, afterwards la threshold continuous via sensor per output or IE/PN interface Non-electrically isolated 24 V input (signal level "high" at > 15 V) Total system overloadable 150% la rated to 5 s/min 3-color LED for operating state device; 3-color LED per output for operating

PROFINET protocol	Yes
protocol is supported OPC UA	Yes
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	
maximum	3.5 mA
protection class IP	IP20
Approvals	
certificate of suitability	
CE marking	Yes
• UL approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus (CSA C22.2 No. 60950-1, UL 60950-1)
• cCSAus, Class 1, Division 2	No
• ATEX	No
certificate of suitability	
• IECEx	No
NEC Class 2	No
ULhazloc approval	No
FM registration	No
type of certification CB-certificate	Yes
certificate of suitability	
• EAC approval	Yes
• C-Tick	No
certificate of suitability shipbuilding approval	Yes
shipbuilding approval	ABS, DNV GL
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
French marine classification society (BV)	No
DNV GL	Yes
Lloyds Register of Shipping (LRS)	No
Nippon Kaiji Kyokai (NK)	No
EMC	110
standard	
for emitted interference	EN 55022 Class B
for mains harmonics limitation	EN 61000-3-2
for interference immunity	EN 61000-6-2
nvironmental conditions	21.01000 0 2
ambient temperature	
•	25 ±60 °C; with natural convection
during operation     during transport	-25 +60 °C; with natural convection -40 +85 °C
during transport     during storage	-40 +85 °C
during storage      pulsappoints leaterany according to IEC 60721	
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
Mechanics	Divide in terminals with corresponding
type of electrical connection	Plug-in terminals with screwed connection
at input	L1, L2, L3, PE: Plug-in terminal with 1 screwed connection each for 0.2 4 mm² single-wire / fine stranded
at output	1, 2, 3, 4: Two plug-in terminals (1, 2 and 3, 4) with 2 screwed connections each for 0.2 2.5 mm²; 0 V: Plug-in terminal with 3 screwed connections for 0.2 10 mm²
• for auxiliary contacts	RST (Reset): Plug-in terminal (together with alarm signal) with 1 screwed connection for 0.2 1.5 mm²
for signaling contact	11, 12, 14 (alarm signal): Plug-in terminal (together with Reset) with 1 screwed connection each for 0.2 1.5 mm <sup>2</sup>
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	125 mm
height of the enclosure	125 mm
depth of the enclosure	150 mm
required spacing	
• top	50 mm
• bottom	50 mm
• left	0 mm
• right	0 mm
net weight	2.6 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	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	207 612 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

