SIEMENS

Data sheet 6EP4436-8XB00-0CY0

SITOP CNX8600 4X5A
SITOP CNX8600 4x5 A Extension module for PSU8600 output: 24 V DC/4x 5 A

Output	
Output	Controlled, isolated DC voltage
number of outputs	4
Rated voltage Vout DC	24 V
• output voltage at output 1 at DC rated value	24 V
• output voltage at output 2 at DC rated value	24 V
• output voltage at output 3 at DC rated value	24 V
• output voltage at output 4 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. 120 W per output
Status display	3-color LED for operating state module; 3-color LED per output for operating state output

Signaling	Relay contact (changeover contact, contact current capacity DC 60 V/0.3 A) for "Operating state OK" at power supply unit PSU8600
On/off behavior	No overshoot of Vout (soft start)
Startup delay, max.	1.5 s; Without on-delay of the outputs
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 at power supply unit PSU8600 can be set
voltage increase time of the output voltage maximum	500 ms
Rated current value Iout rated	20 A
output current	
• per output	5 A
• at output 1 rated value	5 A
• at output 2 rated value	5 A
• at output 3 rated value	5 A
• at output 4 rated value	5 A
Current range	0 ... 20 A
• Note	No increase in the maximum output power of the overall system SITOP PSU8600 via the expansion module SITOP CNX8600 possible
supplied active power typical	480 W
product feature parallel switching of outputs	No
Parallel switching for enhanced performance	No

Efficiency	
Efficiency at Vout rated, Iout rated, approx.	97 %
Power loss at Vout rated, Iout rated, approx.	15 W

Closed-loop control	
Dynamic mains compensation (Vin rated ±15 %), max.	0.1 %
Dynamic load smoothing (Iout: 50/100/50 %), Uout ± typ.	0.4 %
setting time maximum	10 ms

Protection and monitoring	
Output overvoltage protection	< 35 V
property of the output short-circuit proof	Yes
Short-circuit protection	electronic overload cut-off
adjustable response value current of current-dependent overload trip	0.5 ... 5 A
type of threshold value setting	via potentiometer or IE/PN interface
characteristics of electronic overload switch-off	Ia >1.0…<1.5 x Ia threshold permissible for 5 s; Ia limit (= 1.5 x Ia threshold) permissible for 200 ms
Reset	via sensor per output or IE/PN interface

Remote reset	Non-electrically isolated 24 V input (signal level "high" at > 15 V) at power supply unit PSU8600
Overload/short-circuit indicator	3-color LED for operating state module; 3-color LED per output for operating state output
Interface	
Specification interface	Ethernet/PROFINET via power supply unit PSU8600
Safety	
Primary/secondary isolation	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class III
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 (CSA C22.2 No. 60950-1, UL 60950-1)
Explosion protection	IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC IIC T4 Gc; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4
certificate of suitability NEC Class 2	No
FM approval	-
CB approval	Yes
Marine approval	ABS, DNV GL
EMC	
Emitted interference	EN 55022 Class B
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	
• 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; Ground: Plug-in terminal with 3 screwed connections for 0.2 ... 2.5 mm²
product function	
• removable terminal at output	Yes
suitability for interaction modular system	Yes

type of connection to system components	Via integrated connector
width of the enclosure	60 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
Weight, approx.	1.15 kg
product feature of the enclosure housing for side-by-side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x15
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
MTBF at 40 °C	358 372 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)