SIEMENS

Data sheet

6EP4436-8XB00-0DY0



SITOP CNX8600/8X2.5A

SITOP CNX8600 8x2.5 A expansion module for PSU8600 output: 24 V DC/8x 2.5 A outputs according to NEC Class 2 *Ex approval no longer available*

Output	
voltage curve at output	Controlled, isolated DC voltage
number of outputs	8
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 5 at DC rated value 	24 V
 at output 6 at DC rated value 	24 V
 at output 7 at DC rated value 	24 V
 at output 8 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	
• maximum	100 mV
voltage peak	
• 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. 60 W per output; Derating > 24 V: 4%/V; max. 60 W per output
display version for normal operation	3-color LED for operating state module; 3-color LED per output for operating state output
type of signal at output	Relay contact (changeover contact, contact current capacity DC 60 V/0.3 A) for "Operating state OK" at power supply unit PSU8600
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	1.5 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 at power supply unit PSU8600 can be set
voltage increase time of the output voltage	
• maximum	500 ms
output current	
 rated value 	20 A
 per output 	2.5 A
 at output 1 rated value 	2.5 A
 at output 2 rated value 	2.5 A
 at output 3 rated value 	2.5 A
• at output 4 rated value	2.5 A

 at output 5 rated value 	2.5 A
 at output 6 rated value 	2.5 A
 at output 7 rated value 	2.5 A
 at output 8 rated value 	2.5 A
• rated range	0 20 A; Outputs meet requirements to NEC Class 2; an increase of
• Tated Tange	the maximum output power of the SITOP PSU8600 overall system is not
	possible over the SITOP CNX8600 expansion module
supplied active power typical	480 W
	100 11
product feature	
parallel switching of outputs	No
 bridging of equipment 	No
Efficiency	
efficiency in percent	97 %
power loss [W]	
 at rated output voltage for rated value of the output 	15 W
current typical	
Closed-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	
• maximum	10 ms
Protection and monitoring	
design of the overvoltage protection	max. 35 V (max. 500 ms)
property of the output short-circuit proof	Yes
design of short-circuit protection	electronic overload cut-off
adjustable current response value current of the current-	0.5 2.5 A
dependent overload release	
type of response value setting	via potentiometer or IE/PN interface
switching 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
design of the reset device/resetting mechanism	via sensor per output or IE/PN interface
remote reset function	Non-electrically isolated 24 V input (signal level "high" at > 15 V) at
	power supply unit PSU8600
display version for overload and short circuit	3-color LED for operating state module; 3-color LED per output for
	operating state output
Interface	
design of the interface	Ethernet/PROFINET via power supply unit PSU8600
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 III
protection class IP	IP20
Approvals	
certificate of suitability	N/
• 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), NEC class 2
 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), NEC class 2
 cCSAus, Class 1, Division 2 	cCSAus (CSA C22.2 No. 60950-1, UL 60950-1), NEC class 2 No
 cCSAus, Class 1, Division 2 ATEX 	
	No
• ATEX	No
ATEX certificate of suitability	No
ATEX certificate of suitability IECEx NEC Class 2	No No
ATEX certificate of suitability IECEx NEC Class 2 ULhazloc approval	No No Yes No
ATEX certificate of suitability IECEx NEC Class 2 ULhazloc approval FM registration	No No Yes No No
 ATEX certificate of suitability IECEx NEC Class 2 ULhazloc approval FM registration type of certification CB-certificate 	No No Yes No
 ATEX certificate of suitability IECEx NEC Class 2 ULhazloc approval FM registration type of certification CB-certificate certificate of suitability 	No No Yes No No Yes
 ATEX certificate of suitability IECEx NEC Class 2 ULhazloc approval FM registration type of certification CB-certificate certificate of suitability EAC approval 	No No Yes No Yes Yes
 ATEX certificate of suitability IECEx NEC Class 2 ULhazloc approval FM registration type of certification CB-certificate certificate of suitability EAC approval C-Tick 	No No Yes No Yes Yes
 ATEX certificate of suitability IECEx NEC Class 2 ULhazloc approval FM registration type of certification CB-certificate certificate of suitability EAC approval 	No No Yes No Yes Yes

certificate of suitability shipbuilding approval shipbuilding approval Marine classification association • American Bureau of Shipping Europe Ltd. (ABS) • French marine classification society (BV) • DNV GL • Lloyds Register of Shipping (LRS) • Nippon Kaiji Kyokai (NK)	Yes ABS, DNV GL Yes No No No
EMC	
standard	
 for emitted interference for interference immunity 	EN 55022 Class B EN 61000-6-2
environmental conditions	
 ambient temperature during operation during transport during storage environmental category according to IEC 60721 	-25 +60 °C; with natural convection -40 +85 °C -40 +85 °C Climate class 3K3, 5 95% no condensation
Mechanics	
type of electrical connection • at output	Plug-in terminals with screwed connection 1, 2, 3, 4, 5, 6, 7, 8: Two plug-in terminals (14 and 58) with 1 screwed connection each for 0.2 2.5 mm ² ; Ground: Plug-in terminal with 3 screwed connections for 0.2 2.5 mm ²
product function • removable terminal at output suitability for interaction modular system type of connection to system components width of the enclosure height of the enclosure depth of the enclosure required spacing • top • bottom • left • right net weight product feature of the enclosure housing can be lined up fastening method mechanical accessories MTBF at 40 °C other information	Yes Yes Via integrated connector 100 mm 125 mm 150 mm 50 mm 50 mm 0 mm 0 mm 1.29 kg Yes Snaps onto DIN rail EN 60715 35x15 Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20 327 369 h Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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