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

| 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 |
| output voltage adjustable | Yes; via potentiometer or IE/PN interface |
| adjustable output voltage | 4 ... 28 V; Derating > 24 V: 4%/V; max. 60 W per output |
| 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 |
| 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 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 |
| 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 current typical | 15 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 | 0.4 % |
| 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-dependent overload release | 0.5 ... 2.5 A |
| type of response value setting | via potentiometer or IE/PN interface |
| switching characteristic | |
| ● of the excess current | Ia >1.0…<1.5 x Ia threshold permissible for 5 s; Ia limit (= 1.5 x Ia threshold) permissible for 200 ms |
| display version for overload and short circuit | 3-color LED for operating state module; 3-color LED per output for operating state output |
| 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 |
| **interfaces** | |
| product function communication function | Yes |
| 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 Vout according to EN 61204-7 |
| operating resource protection class | Class III |
| protection class IP | IP20 |
| **EMC** | |
| standard | |
| ● for emitted interference | EN 55022 Class B |
| ● for interference immunity | EN 61000-6-2 |
| **standards, specifications, approvals** | |
| certificate of suitability | |
| ● CE marking | Yes |
| ● UL approval | Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 |
| ● CSA approval | Yes; cCSAus (CSA C22.2 No. 62368-1, UL 62368-1) |
| ● EAC approval | Yes |
| ● Regulatory Compliance Mark (RCM) | Yes |
| ● NEC Class 2 | Yes; according to UL1310 |
| ● SEMI F47 | Yes |
| type of certification | |
| ● CB-certificate | Yes |
| MTBF at 40 °C | 327 369 h |
| **standards, specifications, approvals hazardous environments** | |
| certificate of suitability | |

| | |
|---|---|
| ● IECEx | No |
| ● ATEX | No |
| ● ULhazloc approval | No |
| ● cCSAus, Class 1, Division 2 | No |
| ● FM registration | No |
| **standards, specifications, approvals marine classification** | |
| shipbuilding approval | Yes |
| Marine classification association | |
| ● American Bureau of Shipping Europe Ltd. (ABS) | Yes |
| ● French marine classification society (BV) | No |
| ● Det Norske Veritas (DNV) | Yes |
| ● Lloyds Register of Shipping (LRS) | No |
| **standards, specifications, approvals Environmental Product Declaration** | |
| Environmental Product Declaration | Yes |
| Global Warming Potential [CO2 eq] | |
| ● total | 58.1 kg |
| ● during manufacturing | 32.5 kg |
| ● during operation | 0 kg |
| ● after end of life | 0.52 kg |
| **ambient conditions** | |
| ambient temperature | |
| ● during operation | -25 ... +60 °C; with natural convection |
| ● during transport | -40 ... +85 °C |
| ● during storage | -40 ... +85 °C |
| environmental category according to IEC 60721 | Climate class 3K3, 5 ... 95% no condensation |
| **connection method** | |
| type of electrical connection | Plug-in terminals with screwed connection |
| ● at output | 1, 2, 3, 4, 5, 6, 7, 8: Two plug-in terminals (1…4 and 5…8) with 1 screwed connection each for 0.2 ... 2.5 mm²; Ground: Plug-in terminal with 3 screwed connections for 0.2 ... 2.5 mm² |
| removable terminal at output | Yes |
| suitability for interaction modular system | Yes |
| type of connection to system components | Via integrated connector |
| **mechanical data** | |
| width × height × depth of the enclosure | 100 × 125 × 150 mm |
| installation width × mounting height | 100 mm × 225 mm |
| required spacing | |
| ● top | 50 mm |
| ● bottom | 50 mm |
| ● left | 0 mm |
| ● right | 0 mm |
| fastening method | Snaps onto DIN rail EN 60715 35x15 |
| ● standard rail mounting | Yes |
| ● S7 rail mounting | No |
| ● wall mounting | No |
| housing can be lined up | Yes |
| net weight | 1.29 kg |
| **accessories** | |
| mechanical accessories | Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20 |
| **further information internet links** | |
| internet link | |
| ● to website: Industry Mall | https://mall.industry.siemens.com |
| ● to website: Industrial communication | https://siemens.com/industrial-communication |
| ● to website: CAx-Download-Manager | https://siemens.com/cax |
| ● to website: Industry Online Support | https://support.industry.siemens.com |
| **additional information** | |
| other information | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |
| **security information** | |
| security information | Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber |

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## Classifications

| | Version | Classification |
|---|---|---|
| eClass | 14 | 27-04-07-01 |
| eClass | 12 | 27-04-07-01 |
| eClass | 9.1 | 27-04-07-01 |
| eClass | 9 | 27-04-07-01 |
| eClass | 8 | 27-04-90-02 |
| eClass | 7.1 | 27-04-90-02 |
| eClass | 6 | 27-04-90-02 |
| ETIM | 9 | EC002540 |
| ETIM | 8 | EC002540 |
| ETIM | 7 | EC002540 |
| IDEA | 4 | 4130 |
| UNSPSC | 15 | 39-12-10-04 |

## Approvals Certificates

### General Product Approval

CB CSA Manufacturer Declaration Declaration of Conformity UKCA CE EG-Konf.

| General Product Approval | Marine / Shipping | | Environment |
|---|---|---|---|
| UL | ABS | DNV | EPD |

**last modified:** 6/26/2024