



SITOP CNX8600/4X10A

SITOP CNX8600 4x10 A expansion module for PSU8600 output: 24 V DC/4x 10 A
Ex approval no longer available

| 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 |
| 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. 240 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 | 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; No increase in the maximum output power of the overall system SITOP PSU8600 via the expansion module SITOP CNX8600 possible |
| supplied active power typical | 960 W |

| | |
|---|---|
| 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 current typical | 30 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 ... 10 A |
| type of response value setting | via potentiometer or IE/PN interface |
| switching characteristic | |
| • of the excess current | $I_a > 1.0 \dots < 1.5 \times I_a$ threshold permissible for 5 s; I_a limit (= $1.5 \times I_a$ 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 U_{out} acc. to EN 60950-1 and EN 50178 |
| operating resource protection class | Class III |
| 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 | |
|--|---|
| standard | |
| • for emitted interference | EN 55022 Class B |
| • for interference immunity | EN 61000-6-2 |
| environmental 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 |
| Mechanics | |
| type of electrical connection | Plug-in terminals with screwed connection |
| • 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 mm ² ; Ground: Plug-in terminal with 3 screwed connections for 0.2 ... 2.5 mm ² |
| 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 |
| net weight | 1.15 kg |
| product feature of the enclosure housing can be lined up | Yes |
| fastening method | 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) |

