

SITOP PSE202U/Redundancy M./DC24V/40A

SITOP PSE202U redundancy module input/output: 24 V DC/40 A suitable for decoupling two SITOP power supplies with maximal per 20 A output current

| input                                                                   |                                                                                                                                                                             |
|-------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| type of the power supply network                                        | DC voltage                                                                                                                                                                  |
| supply voltage at DC                                                    | 24 ... 24 V                                                                                                                                                                 |
| input voltage at DC                                                     | 24 ... 28.8 V                                                                                                                                                               |
| output                                                                  |                                                                                                                                                                             |
| voltage curve at output                                                 | Controlled, isolated DC voltage                                                                                                                                             |
| output voltage at DC rated value                                        | 24 V                                                                                                                                                                        |
| formula for output voltage                                              | $V_{in} - \text{approx. } 0.5 \text{ V}$                                                                                                                                    |
| output voltage                                                          |                                                                                                                                                                             |
| • at output 1 at DC rated value                                         | 24 V                                                                                                                                                                        |
| output voltage adjustable                                               | No                                                                                                                                                                          |
| display version for normal operation                                    | Green LED for "both Input voltages > switching threshold"; red LED: for "at least one input voltage < switching threshold"                                                  |
| type of signal at output                                                | Isolated relay contact (changeover contacts, rating 8 A/240 V AC, 24 V DC): Signals OK if both input voltages > switching threshold, setting range of threshold 20 ... 25 V |
| output current                                                          |                                                                                                                                                                             |
| • rated value                                                           | 40 A                                                                                                                                                                        |
| • rated range                                                           | 40 A; max. aggregate current 40 A; +60 ... +70 °C: derating 3%/K                                                                                                            |
| efficiency                                                              |                                                                                                                                                                             |
| efficiency in percent                                                   | 96.6 %                                                                                                                                                                      |
| power loss [W]                                                          |                                                                                                                                                                             |
| • at rated output voltage for rated value of the output current typical | 34 W                                                                                                                                                                        |
| • during no-load operation maximum                                      | 1.5 W                                                                                                                                                                       |
| safety                                                                  |                                                                                                                                                                             |
| galvanic isolation                                                      | yes, SELV acc. to EN 60950-1 (relay contact)                                                                                                                                |
| 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; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259                                                                                                               |
| • EAC approval                                                          | Yes                                                                                                                                                                         |
| • NEC Class 2                                                           | No                                                                                                                                                                          |
| type of certification                                                   |                                                                                                                                                                             |
| • CB-certificate                                                        | No                                                                                                                                                                          |
| MTBF at 40 °C                                                           | 6 471 654 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |                |
| ambient conditions                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                |
| ambient temperature                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                |
| • during operation                                         | -25 ... +60; with natural convection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |         |                |
| • during transport                                         | -40 ... +85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |                |
| • during storage                                           | -40 ... +85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |         |                |
| environmental category according to IEC 60721              | Climate class 3K3, 5 ... 95% no condensation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |                |
| connection method                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                |
| type of electrical connection                              | screw terminal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |         |                |
| • at input                                                 | Input, output and ground: 1 screw terminal each for 0.33 ... 10 mm² single-core/finely stranded                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                |
| • for auxiliary contacts                                   | Relay contact: 3 screw terminals for 0.5 ... 2.5 mm² single-core/finely stranded                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |                |
| mechanical data                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                |
| width × height × depth of the enclosure                    | 70 × 125 × 120 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |                |
| installation width × mounting height                       | 70 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 35x7.5/15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |                |
| • DIN-rail mounting                                        | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                |
| • S7 rail mounting                                         | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |                |
| • wall mounting                                            | No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |         |                |
| housing can be lined up                                    | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |                |
| net weight                                                 | 0.5 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |         |                |
| further information internet links                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                |
| internet link                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                |
| • to website: Industry Mall                                | <a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |                |
| • to web page: selection aid TIA Selection Tool            | <a href="https://www.siemens.com/tstcloud">https://www.siemens.com/tstcloud</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                |
| • to web page: power supplies                              | <a href="https://siemens.com/sitop">https://siemens.com/sitop</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |                |
| • to website: CAX-Download-Manager                         | <a href="https://siemens.com/cax">https://siemens.com/cax</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |         |                |
| • to website: Industry Online Support                      | <a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |                |
| 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 threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit <a href="https://www.siemens.com/cybersecurity-industry">www.siemens.com/cybersecurity-industry</a> . Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under <a href="https://www.siemens.com/cert">https://www.siemens.com/cert</a> . (V4.7) |         |                |
|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                |
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| Classifications                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |                |
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|        |     |             |
|--------|-----|-------------|
| 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 | Marine / Shipping |
|--------------------------|-------------------|

[Manufacturer Declaration](#)   [Declaration of Conformity](#)



Marine / Shipping



last modified: 11/25/2024