

SITOP REDUNDANCY MODULE  
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                                      |                                                                                                                                                                             |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input                                      | DC voltage                                                                                                                                                                  |
| Supply voltage                             |                                                                                                                                                                             |
| • at DC                                    | 24 ... 24 V                                                                                                                                                                 |
| Input voltage                              |                                                                                                                                                                             |
| • at DC                                    | 24 ... 28.8 V                                                                                                                                                               |
| Output                                     |                                                                                                                                                                             |
| Output                                     | Controlled, isolated DC voltage                                                                                                                                             |
| Rated voltage Vout DC                      | 24 V                                                                                                                                                                        |
| Output voltage                             | Vin - approx. 0.5 V                                                                                                                                                         |
| Product function Output voltage adjustable | No                                                                                                                                                                          |
| Status display                             | Green LED for "both Input voltages > switching threshold"; red LED: for "at least one input voltage < switching threshold"                                                  |
| Signaling                                  | 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 |
| Rated current value Iout rated             | 40 A                                                                                                                                                                        |
| Current range                              | 40 A                                                                                                                                                                        |
| • Note                                     | max. aggregate current 40 A; +60 ... +70 °C: derating 3%/K                                                                                                                  |

|                                                                                            |                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Efficiency</b>                                                                          |                                                                                                                                                                                                             |
| Efficiency at V <sub>out</sub> rated, I <sub>out</sub> rated, approx.                      | 96.6 %                                                                                                                                                                                                      |
| Power loss at V <sub>out</sub> rated, I <sub>out</sub> rated, approx.                      | 34 W                                                                                                                                                                                                        |
| Power loss [W] during no-load operation maximum                                            | 1.5 W                                                                                                                                                                                                       |
| <b>Safety</b>                                                                              |                                                                                                                                                                                                             |
| Galvanic isolation                                                                         | yes, SELV acc. to EN 60950-1 (relay contact)                                                                                                                                                                |
| Protection class                                                                           | Class III                                                                                                                                                                                                   |
| Degree of protection (EN 60529)                                                            | IP20                                                                                                                                                                                                        |
| <b>Approvals</b>                                                                           |                                                                                                                                                                                                             |
| CE mark                                                                                    | Yes                                                                                                                                                                                                         |
| UL/cUL (CSA) approval                                                                      | cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259                                                                                                                                                    |
| Explosion protection                                                                       | IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nAC IIC T4; cCSAus (CSA C22.2 No. 213, ANSI/ISA-12.12.01) Class I, Div. 2, Group ABCD, T4                                                                      |
| FM approval                                                                                | -                                                                                                                                                                                                           |
| CB approval                                                                                | No                                                                                                                                                                                                          |
| Marine approval                                                                            | ABS, DNV GL                                                                                                                                                                                                 |
| <b>EMC</b>                                                                                 |                                                                                                                                                                                                             |
| Emitted interference                                                                       | EN 55022 Class B                                                                                                                                                                                            |
| Noise immunity                                                                             | EN 61000-6-2                                                                                                                                                                                                |
| <b>environmental conditions</b>                                                            |                                                                                                                                                                                                             |
| Ambient temperature                                                                        | -25 ... +60 °C<br>with natural convection<br>-40 ... +85 °C<br>-40 ... +85 °C                                                                                                                               |
| <ul style="list-style-type: none"> <li>during operation</li> </ul>                         |                                                                                                                                                                                                             |
| — Note                                                                                     |                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>during transport</li> <li>during storage</li> </ul> |                                                                                                                                                                                                             |
| Humidity class according to EN 60721                                                       | Climate class 3K3, 5 ... 95% no condensation                                                                                                                                                                |
| <b>Mechanics</b>                                                                           |                                                                                                                                                                                                             |
| Connection technology                                                                      | screw-type terminals                                                                                                                                                                                        |
| Connections                                                                                | Input, output and ground: 1 screw terminal each for 0.33 ... 10 mm <sup>2</sup> single-core/finely stranded<br>Relay contact: 3 screw terminals for 0.5 ... 2.5 mm <sup>2</sup> single-core/finely stranded |
| <ul style="list-style-type: none"> <li>Supply input</li> <li>Auxiliary</li> </ul>          |                                                                                                                                                                                                             |
| Width of the enclosure                                                                     | 70 mm                                                                                                                                                                                                       |
| Height of the enclosure                                                                    | 125 mm                                                                                                                                                                                                      |
| Depth of the enclosure                                                                     | 120 mm                                                                                                                                                                                                      |
| Required spacing                                                                           | 50 mm<br>50 mm<br>0 mm                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>top</li> </ul>                                      |                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>bottom</li> </ul>                                   |                                                                                                                                                                                                             |
| <ul style="list-style-type: none"> <li>left</li> </ul>                                     |                                                                                                                                                                                                             |

|                                                                    |                                                                                                   |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| • right                                                            | 0 mm                                                                                              |
| Weight, approx.                                                    | 0.5 kg                                                                                            |
| Product feature of the enclosure housing for side-by-side mounting | Yes                                                                                               |
| Installation                                                       | Snaps onto DIN rail EN 60715 35x7.5/15                                                            |
| MTBF at 40 °C                                                      | 6 471 654 h                                                                                       |
| Other information                                                  | Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |