



SITOP PSE200U/4X0.5-3A/SEO

SITOP PSE200U 3 A Selectivity module 4-channel input: 24 V DC/12 A output: 24 V DC/4x 3 A threshold value adjustable 0.5-3 A with status message for each output \*Ex approval no longer available\*

### Input

|   |                       |
|---|-----------------------|
| type of the power supply network                      | Controlled DC voltage |
| supply voltage at DC rated value                      | 24 V                  |
| input voltage at DC                                   | 22 ... 30 V           |
| overvoltage overload capability                       | 35 V                  |
| input current at rated input voltage 24 V rated value | 12 A                  |

### Output

|   |   |
|---|---|
| voltage curve at output   | controlled DC voltage   |
| formula for output voltage  | $V_{in} - \text{approx. } 0.2 \text{ V}$  |
| relative overall tolerance of the voltage note                                      | In accordance with the supplying input voltage  |
| number of outputs   | 4   |
| output current up to 60 °C per output rated value                                   | 3 A   |
| adjustable current response value current of the current-dependent overload release | 0.5 ... 3 A   |
| type of response value setting  | via potentiometer   |
| product feature parallel switching of outputs                                       | No  |
| type of outputs connection  | Simultaneous connection of all outputs after power up of the supply voltage > 20 V, delay time of 25 ms, 100 ms or adjustable "load optimised" via DIP switch for sequential connection |

### Efficiency

|  |      |
|--|------|
| efficiency in percent  | 97 % |
| power loss [W] at rated output voltage for rated value of the output current typical | 9 W  |

### Switch-off characteristic per output

|   |  |
|---|--|
| switching characteristic  |  |
| <ul style="list-style-type: none"> <li>of the excess current</li> <li>of the current limitation</li> <li>of the immediate switch-off</li> </ul> | $I_{out} = 1.0 \dots 1.5 \times \text{set value}$ , switch-off after approx. 5 s<br>$I_{out} = 1.5 \times \text{set value}$ , switch-off after typ. 100 ms<br>$I_{out} > \text{set value}$ and $V_{in} < 20 \text{ V}$ , switch-off after approx. 0.5 ms |
| residual current at switch-off typical  | 1 mA   |
| design of the reset device/resetting mechanism  | via sensor per output  |
| remote reset function   | Non-electrically isolated 24 V input (signal level "high" at > 15 V)   |

### Protection and monitoring

|  |  |
|--|--|
| fuse protection type at input                          | 5 A per output (not accessible)  |
| display version for normal operation                   | Three-color LED per output: green LED for "Output switched through"; yellow LED for "Output switched off manually"; red LED for "Output switched off due to overcurrent" |
| design of the switching contact for signaling function | Status signal output (pulse/pause signal, can be evaluated via Simatic function block)   |

### Safety

|   |                                      |
|---|--------------------------------------|
| galvanic isolation between input and output at switch-off | No                                   |
| standard for safety                                       | according to EN 60950-1 and EN 50178 |
| operating resource protection class                       | Class III                            |

|   |   |
|---|---|
| protection class IP                             | IP20  |
| <b>Approvals</b>                                |   |
| certificate of suitability                      | Yes<br>Yes; UL-Recognized (UL 2367) File E328600; cULus-Listed (UL 508, CSA C22.2 No. 107.1) File E197259<br>No<br>No<br>Yes<br>Yes<br>DNV GL, ABS<br>Yes<br>Yes  |
| • CE marking                                    |   |
| • UL approval                                   |   |
| • ATEX  |   |
| certificate of suitability                      |   |
| • IECEx   |   |
| certificate of suitability                      |   |
| • EAC approval                                  |   |
| • shipbuilding approval                         |   |
| shipbuilding approval                           |   |
| Marine classification association               |   |
| • American Bureau of Shipping Europe Ltd. (ABS) | Yes   |
| • DNV GL  | Yes   |
| <b>EMC</b>                                      |   |
| standard  | EN 55022 Class B<br>EN 61000-6-2  |
| • for emitted interference                      |   |
| • for interference immunity                     |   |
| <b>environmental conditions</b>                 |   |
| ambient temperature                             | -25 ... +60 °C; with natural convection<br>-40 ... +85 °C<br>-40 ... +85 °C   |
| • during operation                              |   |
| • during transport                              |   |
| • during storage                                |   |
| environmental category according to IEC 60721   | Climate class 3K3, 5 ... 95% no condensation  |
| <b>Mechanics</b>                                |   |
| type of electrical connection                   | screw-type terminals<br>+24 V: 2 screw terminals for 0.5 ... 16 mm²; 0 V: 2 screw terminals for 0.5 ... 4 mm²<br>Output 1 ... 4: 1 screw terminal each for 0.5 ... 4 mm²<br>1 screw terminal for 0.5 ... 4 mm²<br>Remote reset: 1 screw terminal for 0.5 ... 4 mm²<br>72 mm<br>80 mm<br>72 mm<br>72 mm<br>180 mm<br>50 mm<br>50 mm<br>0 mm<br>0 mm<br>0.2 kg<br>Snaps onto DIN rail EN 60715 35x7.5/15<br>Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20<br>755 915 h<br>Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified) |
| • at input                                      |   |
| • at output                                     |   |
| • for signaling contact                         |   |
| • for auxiliary contacts                        |   |
| width of the enclosure                          |   |
| height of the enclosure                         |   |
| depth of the enclosure                          |   |
| installation width                              |   |
| mounting height                                 |   |
| required spacing                                |   |
| • top   |   |
| • bottom  |   |
| • left  |   |
| • right   |   |
| net weight                                      |   |
| fastening method                                |   |
| mechanical accessories                          |   |
| MTBF at 40 °C                                   |   |
| other information                               |   |

