



SITOP PSE200U/4X0.5-3A/GSC/NECCLASS2

SITOP PSE200U 3 A NEC Class 2 Selectivity module 4-channel input: 24 V DC/12 A output: 24 V/4x 3 A NEC class 2 threshold value adjustable 0.5-3 A with common signaling contact \*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 <math>I_{out} = 1.0 \dots 1.1 \times \text{set value}</math>, switch-off after approx. 5 s</li> <li>• of the current limitation <math>I_{out} = 1.1 \times \text{set value}</math>, switch-off after typ. 100 ms</li> <li>• of the immediate switch-off <math>I_{out} &gt; \text{set value}</math> and <math>V_{in} &lt; 20 \text{ V}</math>, switch-off after approx. 0.5 ms</li> </ul>
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	Common signal contact (changeover contact, rating 0.1 A/24 V DC)
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
<ul style="list-style-type: none"> <li>• CE marking</li> <li>• UL approval</li> </ul>	Yes; UL-Recognized (UL 2367) File E328600; cULus-Listed (UL 508, CSA C22.2 No. 107.1) File E197259; NEC Class2 (UL1310)
<ul style="list-style-type: none"> <li>• ATEX</li> </ul>	No
certificate of suitability	No
<ul style="list-style-type: none"> <li>• IECEx</li> </ul>	No
certificate of suitability	Yes
<ul style="list-style-type: none"> <li>• EAC approval</li> <li>• shipbuilding approval</li> </ul>	Yes
shipbuilding approval	DNV GL, ABS
Marine classification association	Yes
<ul style="list-style-type: none"> <li>• American Bureau of Shipping Europe Ltd. (ABS)</li> <li>• DNV GL</li> </ul>	Yes
<b>EMC</b>	
standard	EN 55022 Class B
<ul style="list-style-type: none"> <li>• for emitted interference</li> <li>• for interference immunity</li> </ul>	EN 61000-6-2
<b>environmental conditions</b>	
ambient temperature	-25 ... +60 °C; with natural convection
<ul style="list-style-type: none"> <li>• during operation</li> <li>• during transport</li> <li>• during storage</li> </ul>	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
<b>Mechanics</b>	
type of electrical connection	screw-type terminals
<ul style="list-style-type: none"> <li>• at input</li> <li>• at output</li> <li>• for signaling contact</li> <li>• for auxiliary contacts</li> </ul>	+24 V: 2 screw terminals for 0.5 ... 16 mm <sup>2</sup> ; 0 V: 2 screw terminals for 0.5 ... 4 mm <sup>2</sup> Output 1 ... 4: 1 screw terminal each for 0.5 ... 4 mm <sup>2</sup> 3 screw terminals for 0.5 ... 4 mm <sup>2</sup> Remote reset: 1 screw terminal for 0.5 ... 4 mm <sup>2</sup>
width of the enclosure	72 mm
height of the enclosure	80 mm
depth of the enclosure	72 mm
installation width	72 mm
mounting height	180 mm
required spacing	50 mm
<ul style="list-style-type: none"> <li>• top</li> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul>	50 mm 0 mm 0 mm
net weight	0.2 kg
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
MTBF at 40 °C	755 915 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

