



SITOP PSE200U/4X0.5-3A/CSC/NECLASS2

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"> • of the excess current $I_{out} = 1.0 \dots 1.1 \times \text{set value}$, switch-off after approx. 5 s • of the current limitation $I_{out} = 1.1 \times \text{set value}$, switch-off after typ. 100 ms • of the immediate switch-off $I_{out} > \text{set value}$ 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	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

Approvals	
certificate of suitability <ul style="list-style-type: none"> • CE marking • UL approval • ATEX 	Yes Yes; UL-Recognized (UL 2367) File E328600; cULus-Listed (UL 508, CSA C22.2 No. 107.1) File E197259; NEC Class2 (UL1310) No
certificate of suitability <ul style="list-style-type: none"> • IECEx 	No
type of certification CB-certificate	Yes
certificate of suitability <ul style="list-style-type: none"> • EAC approval • shipbuilding approval 	Yes Yes
shipbuilding approval	DNV GL, ABS
Marine classification association <ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) • DNV GL 	Yes Yes
EMC	
standard <ul style="list-style-type: none"> • for emitted interference • for interference immunity 	EN 55022 Class B EN 61000-6-2
environmental conditions	
ambient temperature <ul style="list-style-type: none"> • during operation • during transport • during storage 	-25 ... +60 °C; with natural convection -40 ... +85 °C -40 ... +85 °C
environmental category according to IEC 60721	climate class 3K3, 5 ... 95% without condensation
Mechanics	
type of electrical connection <ul style="list-style-type: none"> • at input • at output • for signaling contact • for auxiliary contacts 	screw-type terminals +24 V: 2 screw terminals for 0.5 ... 16 mm ² ; 0 V: 2 screw terminals for 0.5 ... 4 mm ² Output 1 ... 4: 1 screw terminal each for 0.5 ... 4 mm ² 3 screw terminals for 0.5 ... 4 mm ² Remote reset: 1 screw terminal for 0.5 ... 4 mm ²
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 <ul style="list-style-type: none"> • top • bottom • left • right 	50 mm 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)

