

SITOP PSE200U SELECTIVITY MODULE 3A
 SITOP PSE200U 3 A NEC CLASS 2 Selectivity module 4-channel
 input: DC 24 V/12 A output: 24 V/4x 3A NEC class 2 Level adjustable
 0.5-3 A mit status message for each output



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 pick-up value current / of the current-dependent overload release	0.5 ... 3 A
type of response value setting	via potentiometer
product feature	
<ul style="list-style-type: none"> parallel switching of outputs 	No
<ul style="list-style-type: none"> bridging of equipments 	Yes

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
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Efficiency

efficiency in percent	97 %
power loss [W] / at rated output current / 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	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

Approvals

certificate of suitability	<ul style="list-style-type: none"> • CE marking Yes • UL approval Yes; UL-Recognized (UL 2367) File E328600; cULus-Listed (UL 508, CSA C22.2 No. 107.1) File E197259; NEC Class2 (UL1310) • ATEX Yes; IECEx Ex nA IIC T4 Gc; ATEX (EX) II 3G Ex nA IIC T4 Gc; cULus Class I, Div. 2, Group ABCD, T4
standard / for explosion protection	IECEx (IEC 60079-0, -15); ATEX (EN 60079-0, -15)
certificate of suitability	<ul style="list-style-type: none"> • IECEx Yes • shipbuilding approval Yes
shipbuilding approval	DNV GL, ABS
Marine classification association	

- American Bureau of Shipping Europe Ltd. (ABS)
- DNV GL

Yes

Yes

EMC

standard

- for emitted interference
- for interference immunity

EN 55022 Class B

EN 61000-6-2

environmental conditions

ambient temperature

- during operation
- during transport
- during storage

-25 ... +60 °C; with natural convection

-40 ... +85 °C

-40 ... +85 °C

environmental category / acc. to IEC 60721

Climate class 3K3, 5 ... 95% no condensation

Mechanics

type of electrical connection

- at input
- at output
- for signaling contact
- for auxiliary contacts

screw-type terminals

+24 V: 2 screw terminals for 0.5 ... 16 mm²; 0 V: 2 screw terminals for 0.5 ... 4 mm²

Output 1 ... 4: 1 screw terminal each for 0.5 ... 4 mm²

1 screw terminal for 0.5 ... 4 mm²

Remote reset: 1 screw terminal for 0.5 ... 4 mm²

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

- top
- bottom
- left
- right

50 mm

50 mm

0 mm

0 mm

net weight

0.2 kg

mounting type

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)