

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 with common signaling contact



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	Vin - approx. 0.2 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	
• parallel switching of outputs	No
• 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
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 • of the excess current • of the current limitation • of the immediate switch-off	$I_{out} = 1.0 \dots 1.1 \times \text{set value}$, switch-off after approx. 5 s $I_{out} = 1.1 \times \text{set value}$, switch-off after typ. 100 ms $I_{out} > \text{set value}$ 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 • 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) Yes; IECEx Ex nA nC IIC T4 Gc; ATEX (EX) II 3G Ex nA nC 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 • IECEx • Shipbuilding approval	Yes 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

3 screw terminals 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)