

SITOP PSE200U SELECTIVITY MODULE 10A
 SITOP PSE200U 10 A Selectivity module 4-channel input: 24 V
 DC/40 A output: 24 V DC/4x 10 A Level adjustable 3-10 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
Oversvoltage overload capability	35 V
Input current / at rated input voltage 24 V / Rated value	40 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	10 A
Adjustable pick-up value current / of the current-dependent overload release	3 ... 10 A
Type of response value setting	via potentiometer
Product feature / parallel switching of outputs	No
Product feature / 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	99 %
Power loss [W] / at rated output current / for rated value of the output current / typical	10 W

Switch-off characteristic per output

Switching characteristic	<ul style="list-style-type: none"> • of the excess current $I_{out} = 1.0 \dots 1.5 \times \text{set value}$, switch-off after approx. 5 s • of the current limitation $I_{out} = 1.5 \times \text{set value}$, 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	15 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 / CE marking	Yes
Certificate of suitability / UL approval	Yes; UL-Recognized (UL 2367) File E328600; cULus-Listed (UL 508, CSA C22.2 No. 107.1) File E197259
Standard / for explosion protection	IECEX (IEC 60079-0, -15); ATEX (EN 60079-0, -15); cCSAus (CSA C22.2 No. 213, No. 60079, ANSI/ISA 12.12.01, UL 60079)
Certificate of suitability / Shipbuilding approval	Yes
Shipbuilding approval	DNV GL, ABS
Marine classification association	<ul style="list-style-type: none"> • American Bureau of Shipping Europe Ltd. (ABS) Yes • DNV GL Yes

EMC

Standard	
----------	--

- 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 — Note • during transport • during storage 	<p>-25 ... +60 °C</p> <p>with natural convection</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p>
Environmental category / acc. to IEC 60721	Climate class 3K3, 5 ... 95% no condensation

Mechanics

Type of electrical connection	screw-type terminals
Type of electrical connection	screw-type terminals
<ul style="list-style-type: none"> • at input • at output • for signaling contact • for auxiliary contacts 	<p>+24 V: 2 screw terminals for 0.5 ... 16 mm²; 0 V: 2 screw terminals for 0.5 ... 4 mm²</p> <p>Output 1 ... 4: 1 screw terminal each for 0.5 ... 4 mm²</p> <p>1 screw terminal for 0.5 ... 4 mm²</p> <p>Remote reset: 1 screw terminal for 0.5 ... 4 mm²</p>
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
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	540 979 h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)