

SIPLUS PS PSE200U 10A
 SIPLUS PS PSE200U 10 A with conformal coating based on
 6EP1961-2BA41 . SELECTIVITY module 4-channel 4-channel input:
 24 V DC Output: 24 V DC/10 A per channel output current adjustable
 3-10 with status message per channel



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
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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 • of the current limitation • of the immediate switch-off
	<p>$I_{out} = 1.0 \dots 1.5 \times \text{set value}$, switch-off after approx. 5 s</p> <p>$I_{out} = 1.5 \times \text{set value}$, switch-off after typ. 100 ms</p> <p>$I_{out} > \text{set value}$ and $V_{in} < 20 \text{ V}$, switch-off after approx. 0.5 ms</p>
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

Overload protection type / for cables	Fuse 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
Operating resource protection class	Class III
Certificate of suitability	
<ul style="list-style-type: none"> • CE marking 	Yes
Standard / for safety	according to EN 60950-1 and EN 50178
Shipbuilding approval	DNV GL, ABS
Protection class IP	IP20

EMC

Standard	
<ul style="list-style-type: none"> • for emitted interference • for interference immunity 	<p>EN 55022 Class B</p> <p>EN 61000-6-2</p>

Operating data

Ambient temperature	
<ul style="list-style-type: none"> • during operation — Note • during transport • during storage 	<p>-25 ... +70 °C</p> <p>with natural convection</p> <p>-40 ... +85 °C</p> <p>-40 ... +85 °C</p>
Environmental category / acc. to IEC 60721	3B2, 3C4, 3S4

Ambient condition / relating to ambient temperature - air pressure - installation altitude	Tmin ... Tmax at 1140 hPa ... 795 hPa (-1000 m ... +2000 m)
Coating	Conformal Coating
Relative humidity / with condensation / maximum	200 %; Relative humidity, incl. condensation / frost permitted (no commissioning under condensation conditions)
Resistance to biologically active substances / conformity acc. to EN 60721-3-3	Yes; Compliant with EN 60721-3-3, Class 3B2 mold and fungal spores (except fauna); the supplied plug covers must remain in place on the unused interfaces during operation.
Resistance to chemically active substances / conformity acc. to EN 60721-3-3	Yes
Resistance to mechanically active substances / conformity acc. to EN 60721-3-3	Yes; Conformity with EN 60721-3-3, Class 3S4 incl. Sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

Mechanics

Type of electrical connection	screw-type terminals
<ul style="list-style-type: none"> • at input 	+24 V: 2 screw terminals for 0.5 ... 16 mm ² ; 0 V: 2 screw terminals for 0.5 ... 4 mm ²
<ul style="list-style-type: none"> • at output 	Output 1 ... 4: 1 screw terminal each for 0.5 ... 4 mm ²
<ul style="list-style-type: none"> • for signaling contact 	1 screw terminal for 0.5 ... 4 mm ²
<ul style="list-style-type: none"> • for auxiliary contacts 	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
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, pale turquoise 3RT1900-1SB20
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)