



# SITOP expansion modules

## 24 V DC

PSE200U selectivity module  
SITOP select diagnostics module

PSE200U selectivity module	SITOP select diagnostics module
4 x 10 A	4 x 10 A
6EP1961-2BA41	6EP1961-2BA00
	
<p>The selectivity module is used in conjunction with 24 V power supplies to distribute the load current over several current circuits and to monitor the individual currents. Faults in individual circuits caused by overload or short-circuit are detected and selectively switched off so that further load current paths remain unaffected by the fault. This achieves fast fault diagnostics and minimizes standstill times. Signaling via status signal output (single-channel signaling).</p>	<p>The diagnostics module is used in conjunction with 24 V power supplies to distribute the load current over several current circuits and to monitor the individual currents. Faults in individual circuits caused by overload or short-circuit are detected and selectively switched off so that further load current paths remain unaffected by the fault. This achieves fast fault diagnostics and minimizes standstill times.</p>

PSE200U selectivity module	SITOP select diagnostics module
4 x 10 A	4 x 10 A
6EP1961-2BA41	6EP1961-2BA00
Controlled DC voltage	Controlled DC voltage (SITOP select is not designed for operation with DC UPS module 40 A (6EP1931-2FC21/-2FC42))
<b>24 V</b> 22 ... 30 V 35 V 40 A	<b>24 V</b> 22 ... 30 V 35 V; 100 ms 40 A
Controlled DC voltage $U_{in}$ – approx. 0.2 V	Controlled DC voltage $U_{in}$ – approx. 0.3 V
In accordance with the supplying input voltage 4 10 A	In accordance with the supplying input voltage 4 10 A
3 ... 10 A	2 ... 10 A
Via potentiometer No	Via potentiometer No
Simultaneous connection of all channels after power up of the supply voltage > 20 V, delay time of 25 ms, 100 ms, or adjustable "load-optimized" via DIP switch for sequential connection	Simultaneous connection of all channels after power up of the supply voltage, delay time of 24 ms or 100 ms programmable for sequential connection
99 %	97 %
10 W	30 W
$I_{out} = 1.0 \dots 1.3 \times$ set value, switch-off after approx. 5 s $I_a = 1.3 \times$ set value, switch-off not before typ. 100 ms $I_{out} >$ set value and $U_{in} < 20$ V, switch-off after approx. 0.5 ms	$I_{out} = 1.0 \dots 1.3 \times$ set value, switch-off after approx. 5 s $I_{out} = 1.3 \times$ set value, switch-off after approx. 50 ... 100 ms $I_{out} >$ set value and $U_{in} < 20$ V, switch-off after approx. 0.5 ms 20 mA
Using keys for each channel	Using keys on the module

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4 x 10 A	4 x 10 A
6EP1961-2BA41	6EP1961-2BA00
Non-isolated 24 V input (signal level "high" at > 15 V)	–
5 A internal fuse (not accessible)  Three-color LED per channel: Green LED for "output connected", yellow LED for "output manually disconnected", red LED for "output disconnected due to overcurrent" Status signal output (pulse/pause signal for evaluation by Simatic function block)	Blade-type fuse per channel (equipped when delivered with 15 A fuse) Two-color LED per channel: Green LED for "output connected", red LED for "output disconnected" due to overcurrent"  Common signaling contact (NO contact, contact rating 0.5 A/24 V DC)
In accordance with EN 60950-1 and EN 50178 Class III Yes Yes UL-recognized (UL 2367) File E328600; cURus (UL 508, CSA C22.2 No. 107.1), File E197259  ATEX (EN 60079-x); cCSAus (CSA C22.2 No. 213, No. 60079, ANSI/ISA 12.12.01, UL 60079) ATEX (EX) II 3G Ex nA IIC T4 Gc; cCSAus Class I, Div. 2, Group ABCD, T4 GL IP20	In accordance with EN 60950-1 and EN 50178 Class III Yes Yes Yes UL-recognized (UL 2367) File E328600; cURus (UL 508, CSA C22.2 No. 107.1) File E197259; cURus (UL 60950, CSA C22.2 No. 60950) File E151273 ATEX (EN 60079-x); cCSAus (CSA E60079-x, UL 60079-x, UL 1604) ATEX (EX) II 3G Ex nAC IIC T4 U; cCSAus Class I, Div. 2, Group ABCD, T4 No IP20
EN 55022 Class B EN 61000-6-2	EN 55022 Class B EN 61000-6-2
0 ... +60 °C with natural convection -40 ... +85 °C -40 ... +85 °C Climate class 3K3, without condensation	0 ... +60 °C with natural convection -40 ... +85 °C -40 ... +85 °C Climate class 3K3, without condensation
Screw terminals  +24 V: 2 screw terminals for 0.5 ... 10 mm <sup>2</sup> ; 0 V: 2 screw terminals for 0.5 ... 4 mm <sup>2</sup> Outputs 1 ... 4: 1 screw terminal per channel for 0.5 ... 4 mm <sup>2</sup> Remote reset: 1 screw terminal for 0.5 ... 4 mm <sup>2</sup> 1 screw terminal for 0.5 ... 4 mm <sup>2</sup>  72 mm 80 mm 72 mm 72 mm 180 mm 0.2 kg	Screw terminals  +24 V: 2 screw terminals for 0.33 ... 10 mm <sup>2</sup> ; 0 V: 2 screw terminals for 0.22 ... 4 mm <sup>2</sup> Outputs 1 ... 4: 1 screw terminal per channel for 0.22 ... 4 mm <sup>2</sup> –  2 screw terminals for 0.22 ... 4 mm <sup>2</sup>  72 mm 90 mm 90 mm 72 mm 190 mm 0.4 kg
Snaps onto DIN rail EN 60715 35x7.5/15  Device labeling plate 20 mm x 7 mm, pale turquoise 3RT1900-1SB20 Technical data applies for rated input voltage and +25°C ambient temperature (if not otherwise specified)	Snaps onto DIN rail EN 60715 35x7.5/15 4x blade-type fuse 15 A

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### Selection and ordering data

Product	Input Voltage $U_{in}$ rated	Output Voltage $U_{out}$ rated	Current $I_{out}$ rated	Order No.	Price
<b>SITOP modular signaling module</b> 	–	–	–	<b>6EP1961-3BA10</b>	
<b>PSE202U redundancy module</b> 	<b>24 V DC</b>	<b><math>U_{in}</math> – approx. 0.5 V</b>	NEC Class 2	<b>6EP1962-2BA00</b>	
	<b>24 V DC</b>	<b><math>U_{in}</math> – approx. 0.5 V</b>	10 A	<b>6EP1964-2BA00</b>	
	<b>24 V DC</b>	<b><math>U_{in}</math> – approx. 0.5 V</b>	40 A	<b>6EP1961-3BA21</b>	
<b>SITOP buffer module for SITOP smart and SITOP modular</b> 	<b>24 V DC</b>	<b><math>U_{in}</math> – approx. 1 V</b>	40 A	<b>6EP1961-3BA01</b>	
<b>PSE200U selectivity module</b> 	<b>24 V DC</b>	<b><math>U_{in}</math> – approx. 0.2 V</b>	4 x 3 A	<b>6EP1961-2BA11</b>	
	<b>Version with single-channel signaling</b>		4 x 3 A	<b>6EP1961-2BA31</b>	
<b>PSE200U selectivity module</b> 	<b>DC 24</b>	<b><math>U_{in}</math> – approx. 0.2 V</b>	4 x 10 A	<b>6EP1961-2BA21</b>	
	<b>Version with single-channel signaling</b>		4 x 10 A	<b>6EP1961-2BA41</b>	
<b>SITOP select diagnostics module</b> 	<b>DC 24</b>	<b><math>U_{in}</math> – approx. 0.3 V</b>	4 x 10 A	<b>6EP1961-2BA00</b>	
<b>SITOP inrush current limiter</b> 	<b>100 - 480 V AC</b>	<b>100 - 480 V AC</b>	10 A	<b>6EP1967-2AA00</b>	

### Further information

For the selectivity modules with single-channel signaling (6EP1961-2BA31, 6EP1961-2BA41), function blocks are available free of charge for evaluation by SIMATIC S7-1200/300/400:

<http://support.automation.siemens.com/WW/view/en/61450284>

You can find additional information in the Internet at:

- 2D dimensional drawings, 3D CAD data, circuit diagram macros:  
[www.siemens.com/sitop-cax](http://www.siemens.com/sitop-cax)
- Operating instructions:  
[www.siemens.com/sitop-manuals](http://www.siemens.com/sitop-manuals)