

SITOP SELECT DIAGNOSIS MODULE  
 SITOP SELECT 4-CHANNEL DIAGNOSIS MODULE INPUT: 24 V  
 DC OUTPUT: 24 V DC/10 A PER CHANNEL OUTPUT CURRENT  
 ADJUSTABLE 2-10 A



Input	
Type of the power supply network	Controlled DC voltage (SITOP select is not designed for operation with DC UPS module 40 A (6EP1 931-2FC21/-2FC42))
Supply voltage / at DC / Rated value	24 V
Input voltage / at DC	22 ... 30 V
Oversvoltage overload capability	35 V; 100 ms
Input current / at rated input voltage 24 V / Rated value	40 A

Output	
Voltage curve / at output	controlled DC voltage
Formula for output voltage	$V_{in} - \text{approx. } 0.3 \text{ V}$
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 response value current / of the current-dependent overload release	2 ... 10 A
Type of response value setting	via potentiometer
Product property / parallel switching of outputs	No

Type of outputs connection	Simultaneous connection of all outputs after power up of the supply voltage, delay time of 24 ms or 100 ms programmable for sequential connection
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### Efficiency

Efficiency in percent	97 %
Active power loss / at rated output current / at rated output current / typical	30 W

### Switch-off characteristic per output

Switching characteristic	<ul style="list-style-type: none"> <li>• of the excess current</li> <li>• of the current limitation</li> <li>• of the immediate switch-off</li> </ul>
	<p><math>I_{out} = 1.0 \dots 1.3 \times \text{set value}</math>, switch-off after approx. 5 s</p> <p><math>I_{out} = 1.3 \times \text{set value}</math>, switch-off after approx. 50 ... 100 ms</p> <p><math>I_{out} &gt; \text{set value}</math> and <math>V_{in} &lt; 20 \text{ V}</math>, switch-off after approx. 0.5 ms</p>
Residual current at switch-off / typical	20 mA
Design of the reset device/resetting mechanism	Using keys on the module
Remote reset function	-

### Protection and monitoring

Overload protection type / for cables	blade-type fuse per output (equipped with 15 A fuse in as-delivered state)
Display version / for normal operation	Two-color LED per output: green LED for "Output switched through"; red LED for "Output switched off due to overcurrent"
Design of the switching contact / for signaling function	Common signal contact (NO contact, rating 0.5 A/24 V DC)

### 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"> <li>• CE marking</li> <li>• UL approval</li> <li>• as approval for USA</li> </ul>
	<p>Yes</p> <p>Yes</p> <p>UL-Recognized (UL 2367) File E328600; cULus-Listed (UL 508, CSA C22.2 No. 107.1) File E197259; cURus (UL 60950, CSA C22.2 No. 60950) File E151273</p>
Standard	<ul style="list-style-type: none"> <li>• for safety</li> <li>• for explosion protection</li> </ul>
	<p>according to EN 60950-1 and EN 50178</p> <p>ATEX (EN 60079-0, -15); cCSAus (CSA E60079-0, -15; UL 60079-0, -15; UL 1604)</p>
Certificate of suitability	<ul style="list-style-type: none"> <li>• relating to ATEX</li> <li>• Shipbuilding approval</li> </ul>
	<p>ATEX (EX) II 3G Ex nAC IIC T4 U; cCSAus Class I, Div. 2, Group ABCD, T4</p> <p>No</p>
Protection class IP	IP20

### EMC

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

### Operating data

Ambient temperature	
<ul style="list-style-type: none"> <li>• during operation</li> <li>— Note</li> <li>• during transport</li> <li>• during storage</li> </ul>	0 ... 60 °C with natural convection -40 ... +85 °C -40 ... +85 °C
Environmental category / acc. to IEC 60721	Climate class 3K3, no condensation

### Mechanics

Type of electrical connection	screw-type terminals
<ul style="list-style-type: none"> <li>• at input</li> <li>• at output</li> <li>• for signaling contact</li> <li>• for auxiliary contacts</li> </ul>	+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> Output 1 ... 4: 1 screw terminal each for 0.22 ... 4 mm <sup>2</sup> 2 screw terminals for 0.22 ... 4 mm <sup>2</sup> -
Width / of the enclosure	72 mm
Height / of the enclosure	90 mm
Depth / of the enclosure	90 mm
Installation width	72 mm
Mounting height	190 mm
Net weight	0.4 kg
Mounting type	Snaps onto DIN rail EN 60715 35x7.5/15
Product component / belonging to	4x blade-type fuse 15 A
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)