

SITOP SELECT DIAGNOSIS MODULE

SITOP select Diagnostics module 4-channel input: 24 V DC/40 A  
output: 24 V DC/4x 10 A Level 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 pick-up value current / of the current-dependent overload release	2 ... 10 A
Type of response value setting	via potentiometer
Product feature	No
<ul style="list-style-type: none"> <li>parallel switching of outputs</li> </ul>	No

• bridging of equipments	Yes
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

### Efficiency

Efficiency in percent	97 %
Power loss [W] / at rated output current / for rated value of the 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>
	$I_{out} = 1.0 \dots 1.3 \times \text{set value}$ , switch-off after approx. 5 s $I_{out} = 1.3 \times \text{set value}$ , switch-off after approx. 50 ... 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	20 mA
Design of the reset device/resetting mechanism	Using keys on the module
Remote reset function	-

### Protection and monitoring

Fuse protection type / at input	Blade-type fuse per output (equipped when delivered with 15 A fuse)
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
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	<ul style="list-style-type: none"> <li>• CE marking</li> <li>• UL approval</li> <li>• ATEX</li> </ul>
	Yes Yes; 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 Yes; ATEX (EX) II 3G Ex nA nC IIC T4 Gc; cCSAus Class I, Div. 2, Group ABCD, T4
Standard / for explosion protection	ATEX (EN 60079-0, -15); cCSAus (CSA E60079-0, -15; UL 60079-0, -15; UL 1604)
Certificate of suitability	<ul style="list-style-type: none"> <li>• Shipbuilding approval</li> </ul>
	No

### EMC

Standard	<ul style="list-style-type: none"> <li>• for emitted interference</li> <li>• for interference immunity</li> </ul>	<p>EN 55022 Class B</p> <p>EN 61000-6-2</p>
<b>environmental conditions</b>		
Ambient temperature	<ul style="list-style-type: none"> <li>• during operation</li> <li>• during transport</li> <li>• during storage</li> </ul>	<p>0 ... 60 °C; 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
<b>Mechanics</b>		
Type of electrical connection	<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>	<p>screw-type terminals</p> <p>+24 V: 2 screw terminals for 0.5 ... 16 mm<sup>2</sup>; 0 V: 2 screw terminals for 0.5 ... 4 mm<sup>2</sup></p> <p>Output 1 ... 4: 1 screw terminal each for 0.22 ... 4 mm<sup>2</sup></p> <p>2 screw terminals for 0.22 ... 4 mm<sup>2</sup></p> <p>-</p>
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
Required spacing	<ul style="list-style-type: none"> <li>• top</li> <li>• bottom</li> <li>• left</li> <li>• right</li> </ul>	<p>50 mm</p> <p>50 mm</p> <p>0 mm</p> <p>0 mm</p>
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
MTBF / at 40 °C		616 675 h
Other information		Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)