



SITOP SELECT/DIAGNOSIS MODULE/4X2-10A

SITOP select Diagnostics module 4-channel input: 24 V DC/40 A output: 24 V DC/4x 10 A threshold adjustable 2-10 A *Ex approval no longer available*

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
overvoltage 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 current response value current of the current-dependent overload release	2 ... 10 A
type of response value setting	via potentiometer
product feature 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

Efficiency

efficiency in percent	97 %
power loss [W] at rated output voltage for rated value of the output current typical	30 W

Switch-off characteristic per output

switching characteristic	
• of the excess current	$I_{out} = 1.0 \dots 1.3 \times \text{set value}$, switch-off after approx. 5 s
• of the current limitation	$I_{out} = 1.3 \times \text{set value}$, switch-off after approx. 50 ... 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	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	
• CE marking • UL approval	Yes Yes; UL-Recognized (UL 2367) File E328600; cULus-Listed (UL 508, CSA C22.2 No. 107.1) File E197259 No
• ATEX	
certificate of suitability	
• IECEx	No
type of certification CB-certificate	Yes
certificate of suitability	
• EAC approval • shipbuilding approval	Yes No
EMC	
standard	
• for emitted interference • for interference immunity	EN 55022 Class B EN 61000-6-2
environmental conditions	
ambient temperature	
• during operation • during transport • during storage	0 ... 60 °C; with natural convection -40 ... +85 °C -40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
Mechanics	
type of electrical connection	screw-type terminals
• at input	+24 V: 2 screw terminals for 0.5 ... 16 mm ² ; 0 V: 2 screw terminals for 0.5 ... 4 mm ²
• at output • for signaling contact • for auxiliary contacts	Output 1 ... 4: 1 screw terminal each for 0.22 ... 4 mm ² 2 screw terminals for 0.22 ... 4 mm ² -
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	
• top • bottom • left • right	50 mm 50 mm 0 mm 0 mm
net weight	0.4 kg
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
product component included	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)

