SIEMENS

Data sheet 6EP1961-2BA00

SITOP SELECT DIAGNOSIS MODULE
SITOP select 4-channel diagnosis module input: 24 V DC/40 A
output: 24 V DC/4x 10 A threshold 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
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	Vin - approx. 0.3 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 / 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, delay time of 24 ms or 100 ms programmable for sequential connection

Efficiency	
Efficiency in percent	97 %
Power loss [W] / at rated output current / at rated output current / typical	30 W

Switch-off characteristic per output	
Switching characteristic	
• of the excess current	Iout = 1.0 ...1.3 x set value, switch-off after approx. 5 s
• of the current limitation	Iout = 1.3 x set value, switch-off after approx. 50 ... 100 ms
• of the immediate switch-off	Iout > set value and Vin < 20 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	
Overload protection type / for cables	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
Operating resource protection class	Class III
Certificate of suitability	
• CE marking	Yes
• as approval for USA	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
Standard / for safety	according to EN 60950-1 and EN 50178
Certificate of suitability / relating to ATEX	ATEX (EX) II 3G Ex nAC IIC T4 U; cCSAus Class I, Div. 2, Group ABCD, T4
Protection class IP	IP20

EMC	
Standard	
• for emitted interference	EN 55022 Class B
• for interference immunity	EN 61000-6-2

Operating data	
Ambient temperature	
• during operation	0 ... 60 °C

— Note	with natural convection
• during transport	-40 ... +85 °C
• during storage	-40 ... +85 °C
Environmental category / acc. to IEC 60721	Climate class 3K3, no condensation

Mechanics

Type of electrical connection	screw-type terminals
• at input	+24 V: 2 screw terminals for 0.5 ... 16 mm²; 0 V: 2 screw terminals for 0.5 ... 4 mm²
• at output	Output 1 ... 4: 1 screw terminal each for 0.22 ... 4 mm²
• for signaling contact	2 screw terminals for 0.22 ... 4 mm²
• for auxiliary contacts	-
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
MTBF / at 40 °C	378 928 h
Other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)