SIEMENS

Data sheet 6EP1961-2BA00



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

General information	
Technical Product Detail Page	https://i.siemens.com/1P6EP1961-2BA00
product brand name	SITOP
product type designation	select
product designation	SITOP Selectivity module
type of current supply	Diagnosis module, 4 x 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 current response value current of the current-dependent overload release	2 ... 10 A
type of response value setting	via potentiometer
response delay maximum	5 s
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	
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	
fuse protection type at input	Blade-type fuse per output (equipped when delivered with 15 A fuse)

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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 62368-1
operating resource protection class	Class III
protection class IP	IP20
standard	
● for emitted interference	EN 55022 Class B
● for interference immunity	EN 61000-6-2
standards, specifications, approvals	
certificate of suitability	
● CE marking	Yes
● UL approval	Yes; UL-Recognized (UL 2367) File E328600; cULus-Listed (UL 508, CSA C22.2 No. 107.1) File E197259
● UKCA marking	Yes
● EAC approval	Yes
type of certification	
● CB-certificate	Yes
MTBF at 40 °C	616 675 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
● IECEx	No
● ATEX	No
standards, specifications, approvals marine classification	
shipbuilding approval	No
ambient conditions	
ambient temperature	
● during operation	0 ... 60 °C; with natural convection
● during transport	-40 ... +85 °C
● during storage	-40 ... +85 °C
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation
connection method	
type of electrical connection	screw terminal
● 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 auxiliary contacts	-
● for signaling contact	2 screw terminals for 0.22 ... 4 mm²
mechanical data	
width × height × depth of the enclosure	72 × 90 × 90 mm
installation width × mounting height	72 mm × 190 mm
required spacing	
● top	50 mm
● bottom	50 mm
● left	0 mm
● right	0 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
● DIN-rail mounting	Yes
● S7 rail mounting	No
● wall mounting	No
housing can be lined up	Yes
net weight	0.4 kg
accessories	
product component included	4x blade-type fuse 15 A
further information internet links	
internet link	
● to website: Industry Mall	https://mall.industry.siemens.com

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● to web page: selection aid TIA Selection Tool	https://www.siemens.com/tstcloud
● to web page: power supplies	https://siemens.com/sitop
● to website: CAx-Download-Manager	https://siemens.com/cax
● to website: Industry Online Support	https://support.industry.siemens.com

additional information

other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

security information	Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement - and continuously maintain - a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Classifications

	Version	Classification
eClass	16	27-37-18-02
eClass	14	27-37-18-02
eClass	12	27-37-18-02
eClass	9.1	27-37-18-02
eClass	9	27-37-18-02
eClass	8	27-37-18-02
eClass	7.1	27-37-18-02
eClass	6	27-37-18-02
ETIM	10	EC001440
ETIM	9	EC001440
ETIM	8	EC001440
ETIM	7	EC001440
IDEA	4	4727
UNSPSC	15	39-12-15-21

Approvals Certificates

General Product Approval

Manufacturer Declaration | Declaration of Conformity | China RoHS

General Product Approval | other

Miscellaneous

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