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

Technical Product Detail Page	https://i.siemens.com/1P6EP1961-2BA00
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; NO_DATA
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; NO_DATA
output current up to 60 °C per output rated value	10 A; NO_DATA
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; NO_DATA
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)
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)
interfaces	
product function communication function	NO_DATA

design of the interface	NO_DATA
protocol is supported IO-Link protocol	NO_DATA
IO-Link transfer rate	NO_DATA
number of IO-Link ports	NO_DATA
point-to-point cycle time between master and IO-Link device minimum	NO_DATA
data volume	
● of the address range of the outputs with cyclical transfer for all IO-Link ports maximum	NO_DATA
● of the address range of the inputs with cyclical transfer for all IO-Link ports maximum	NO_DATA
protocol between master and IO-Link device Version 1.1	NO_DATA
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
degree of protection NEMA rating	NO_DATA
Safety Integrity Level (SIL) according to IEC 61508	NO_DATA
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
● CSA approval	NO_DATA; NO_DATA
● UKCA marking	Yes
● EAC approval	Yes
● Regulatory Compliance Mark (RCM)	NO_DATA
● NEC Class 2	NO_DATA; NO_DATA
● SEMI F47	NO_DATA
type of certification	
● BIS	NO_DATA; NO_DATA
● CB-certificate	Yes
MTBF at 40 °C	616 675 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
● IECEx	No; NO_DATA
● ATEX	No; NO_DATA
● ULhazloc approval	NO_DATA; NO_DATA
● cCSAus, Class 1, Division 2	NO_DATA; NO_DATA
● UKEX	NO_DATA
● CCC for hazardous zone according to GB standard	NO_DATA; NO_DATA
● FM registration	NO_DATA; NO_DATA
standards, specifications, approvals marine classification	
shipbuilding approval	No
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	NO_DATA; NO_DATA
● French marine classification society (BV)	NO_DATA; NO_DATA
● Det Norske Veritas (DNV)	NO_DATA; NO_DATA
● Lloyds Register of Shipping (LRS)	NO_DATA; NO_DATA
● Nippon Kaiji Kyokai (NK)	NO_DATA; NO_DATA
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	NO_DATA
global warming potential [CO2 eq]	
● total	NO_DATA
● during manufacturing	NO_DATA
● during operation	NO_DATA

● after end of life	NO_DATA
Siemens Eco Profile (SEP)	NO_DATA
ambient conditions	
ambient temperature	
● during operation	0 ... 60 °C; with natural convection
● in horizontal mounting position during operation	NO_DATA; NO_DATA
● during transport	-40 ... +85 °C
● during storage	-40 ... +85 °C
installation altitude at height above sea level maximum	NO_DATA
ambient condition relating to ambient temperature - air pressure - installation altitude	NO_DATA
relative humidity with condensation according to IEC 60068-2-38 maximum	NO_DATA; NO_DATA
environmental category according to IEC 60721	Climate class 3K3, 5 ... 95% no condensation; NO_DATA
chemical resistance to commercially available cooling lubricants	NO_DATA; NO_DATA
resistance to biologically active substances conformity according to EN 60721-3-3	NO_DATA; NO_DATA
resistance to chemically active substances conformity according to EN 60721-3-3	NO_DATA; NO_DATA
resistance to mechanically active substances conformity according to EN 60721-3-3	NO_DATA; NO_DATA
resistance to biologically active substances conformity according to EN 60721-3-6	NO_DATA; NO_DATA
resistance to chemically active substances conformity according to EN 60721-3-6	NO_DATA; NO_DATA
resistance to mechanically active substances conformity according to EN 60721-3-6	NO_DATA; NO_DATA
coating for equipped printed circuit board according to EN 61086	NO_DATA; NO_DATA
type of coating protection against pollution according to EN 60664-3	NO_DATA; NO_DATA
type of test of the coating according to MIL-I-46058C	NO_DATA; NO_DATA
product conformity of the coating Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	NO_DATA; NO_DATA
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
removable terminal at input	NO_DATA
removable terminal at output	NO_DATA
design of the interface for communication	NO_DATA
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
accessories included	NO_DATA

electrical accessories	NO_DATA
mechanical accessories	NO_DATA

further information internet links

internet link	
● to website: Industry Mall	https://mall.industry.siemens.com
● 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
identification link	NO_DATA; NO_DATA

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	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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