SIEMENS

Data sheet 6EP1964-2BA00



SITOP PSE202U/Redundancy M./24VDC/10A

SITOP PSE202U 10A Redundancy module Input/output: 24 V DC suitable for decoupling two SITOP power supplies with maximal per 5 A output current

General information	
Technical Product Detail Page	https://i.siemens.com/1P6EP1964-2BA00
product brand name	SITOP
product type designation	PSE202U
product designation	Redundancy module
input	
type of the power supply network	DC voltage
voltage curve at input	DC
supply voltage at DC	24 V
input voltage at DC	19 ... 29 V
output	
voltage curve at output	Controlled, isolated DC voltage
product function output voltage controlled	Yes
output voltage at DC rated value	24 V
formula for output voltage	Vin - approx. 0.5 V
output voltage	
● at output 1 at DC rated value	24 V
output voltage	
● at output 1 at DC	24 V
output voltage adjustable	No
display version for normal operation	Green LED for "both Input voltages > switching threshold"; red LED: for "at least one input voltage < switching threshold"
type of signal at output	Isolated relay contact (contact rating 6 A/42 V AC, 30 V DC): Contact closed if both input voltages > switching threshold, setting range of switching threshold 20 V ± 0.5V to 25 V ± 0.5V
output current	
● rated value	10 A
● rated range	10 A; max. aggregate current 10 A
efficiency	
efficiency in percent	97.1 %
power loss [W]	
● at rated output voltage for rated value of the output current typical	3.6 W
● during no-load operation maximum	1 W
safety	
galvanic isolation between input and output	No
galvanic isolation	relay contact: SELV, ES1 (IEC 62368-1), DVC As (IEC 61204-7)
operating resource protection class	Class III
protection class IP	IP20
EMC	

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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; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
● EAC approval	Yes
● NEC Class 2	No
type of certification	
● CB-certificate	No
MTBF at 40 °C	3 273 000 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
● IECEx	No
● ATEX	No
● ULhazloc approval	No
● FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	No
Marine classification association	
● American Bureau of Shipping Europe Ltd. (ABS)	No
● French marine classification society (BV)	No
● Det Norske Veritas (DNV)	No
● Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product Declaration	
Environmental Product Declaration	Yes
global warming potential [CO2 eq]	
● total	104.3 kg
● during manufacturing	5.5 kg
● during operation	98.6 kg
● after end of life	0.13 kg
ambient conditions	
ambient temperature	
● during operation	-20 ... +70 °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	Input, output and ground: removable screw terminal, each 1 x 0.5 ... 2.5 mm² single-core/finely stranded
● for auxiliary contacts	Relay contact: 2 screw terminals for 0.5 ... 2.5 mm² single-core/finely stranded
mechanical data	
width × height × depth of the enclosure	30 × 80 × 100 mm
installation width × mounting height	30 mm × 180 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	0.125 kg
accessories	
electrical accessories	Removable spring-type terminal 6EP1971-5BA00

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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

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	27-04-07-01
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	10	EC002540
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

Environmental Product Declaration	
● global warming potential [CO2 eq] / during manufacturing	5.5 kg
● global warming potential [CO2 eq] / during operation	98.6 kg
● global warming potential [CO2 eq] / after end of life	0.13 kg
● global warming potential [CO2 eq] / total	104.3 kg

General Product Approval

Declaration of Conformity | Manufacturer Declaration | China RoHS

General Product Approval

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