

Siemens 6EP1961-3BA21 Manual

Brand	Siemens
Product Series	Siemens
Product Type	of the power supply network DC voltage

Description

6EP1961-3BA21

SITOP PSE202U/Redundancy M./DC24V/40A

SITOP PSE202U redundancy module input/output: 24 V DC/40 A suitable for decoupling two SITOP power supplies with maximal per 20 A output current

input

type of the power supply network DC voltage

supply voltage at DC 24 ... 24 V

input voltage at DC 24 ... 28.8 V

output

voltage curve at output Controlled, isolated DC voltage

output voltage at DC rated value 24 V

formula for output voltage $V_{out} \approx 0.5 \cdot V_{in}$

output voltage

- at output 1 at DC rated value 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 (changeover contacts, rating 8 A/240 V AC, 24 V DC):

Signals OK if both input voltages > switching threshold, setting range of

threshold 20 ... 25 V

output current

- rated value 40 A
- rated range 40 A; max. aggregate current 40 A; +60 ... +70 °C: derating 3%/K

efficiency

efficiency in percent 96.6 %

power loss [W]

- at rated output voltage for rated value of the output

current typical

34 W

- during no-load operation maximum 1.5 W

safety

galvanic isolation yes, SELV acc. to EN 60950-1 (relay contact)

operating resource protection class Class III

protection class IP IP20

EMC

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
- CSA 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 6 471 654 h

standards, specifications, approvals hazardous environments

certificate of suitability

- IECEx No
- ATEX No
- ULhazloc approval No
- cCSAus, Class 1, Division 2 No
- FM registration No

standards, specifications, approvals marine classification

shipbuilding approval Yes

Marine classification association

- American Bureau of Shipping Europe Ltd. (ABS) Yes
- French marine classification society (BV) No
- Det Norske Veritas (DNV) Yes
- Lloyds Register of Shipping (LRS) No

ambient conditions

ambient temperature

- during operation -25 ... +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 Input, output and ground: 1 screw terminal each for 0.33 ... 10 mm² singlecore/finely stranded
- for auxiliary contacts Relay contact: 3 screw terminals for 0.5 ... 2.5 mm² single-core/finely stranded

mechanical data

width × height × depth of the enclosure 70 × 125 × 120 mm

installation width × mounting height 70 mm × 225 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

- standard rail mounting Yes
- S7 rail mounting No
- wall mounting No

housing can be lined up Yes

net weight 0.5 kg

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