

Siemens 6EP1961-2BA11 Manual

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

Description

6EP1961-2BA11

SITOP PSE200U/4X0.5-3A/CSC

SITOP PSE200U 3 A selectivity module 4-channel input: 24 V DC/12 A output: 24 V DC/4x 3 A threshold value adjustable 0.5-3 A with common signaling contact

input

type of the power supply network Controlled DC voltage

supply voltage at DC rated value 24 V

input voltage at DC 22 ... 30 V

overvoltage overload capability 35 V

input current at rated input voltage 24 V rated value 12 A

output

voltage curve at output controlled DC voltage

formula for output voltage V_{in} - approx. 0.2 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 3 A

Adjustable output current 0.5 ... 3 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 > 20 V, delay time of 25 ms, 100 ms or adjustable "load optimised" via DIP switch

for sequential connection

power loss

efficiency in percent 97 %

power loss [W] at rated output voltage for rated value of the

output current typical

9 W

switch-off characteristic

switching characteristic

- of the excess current $I_{out} = 1.0 \dots 1.5 \times \text{set value}$, switch-off after approx. 5 s
- of the current limitation $I_{out} = 1.5 \times \text{set value}$, switch-off after typ. 100 ms
- of the immediate switch-off $I_{out} > \text{set value}$ and $V_{in} < 20 \text{ V}$, switch-off after approx. 0.5 ms

residual current at switch-off typical 1 mA

design of the reset device/resetting mechanism via sensor per output

remote reset function Non-electrically isolated 24 V input (signal level "high" at > 15 V)

protection and monitoring

fuse protection type at input 5 A per output (not accessible)

display version for normal operation Three-color LED per output: green LED for "Output switched through"; yellow LED for "Output switched off manually"; red LED for "Output switched off due to overcurrent"

design of the switching contact for signaling function Common signal contact (changeover contact, rating 0.1 A/24 V DC) safety

galvanic isolation between input and output at switch-off No

standard for safety according to EN 60950-1 and EN 50178

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
- EAC approval Yes

type of certification

- CB-certificate Yes

MTBF at 40 °C 755 915 h

standards, specifications, approvals hazardous environments

certificate of suitability

- IECEx No
- ATEX No

standards, specifications, approvals marine classification

shipbuilding approval Yes

Marine classification association

- American Bureau of Shipping Europe Ltd. (ABS) Yes
- Det Norske Veritas (DNV) Yes

standards, specifications, approvals Environmental Product Declaration

Environmental Product Declaration Yes

Global Warming Potential [CO₂ eq]

- total 290.7 kg
- during manufacturing 18.6 kg
- during operation 250.4 kg
- after end of life 0.3 kg

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 +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 0.5 ... 4 mm²

- for auxiliary contacts Remote reset: 1 screw terminal for 0.5 ... 4 mm²
- for signaling contact 3 screw terminals for 0.5 ... 4 mm²

mechanical data

width × height × depth of the enclosure 72 × 80 × 72 mm

installation width × mounting height 72 × 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

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

housing can be lined up Yes

net weight 0.2 kg

accessories

mechanical accessories Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20

further information internet links

internet link

www.AutoDCSTech.com