chanhvinh.com

SIEMENS

Data sheet 6AG1961-2BA31-7AA0



SIPLUS PS PSE200U 3A

SIPLUS PS PSE200U 3 A based on 6EP1961-2BA31 with conformal coating, -25…+70 °C, selectivity module 4-channel input: 24 V DC output: 24 V DC/3 A per channel output current adjustable 0.5-3 with status message per channel

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	Vin - 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 current response value current of the current-dependent overload release	0.5 ... 3 A
type of response value setting	via potentiometer
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
Efficiency	
efficiency in percent	97 %
power loss [W] at rated output voltage for rated value of the output current typical	9 W
Switch-off characteristic per output	
switching characteristic	
• of the excess current	Iout = 1.0 ...1.5 x set value, switch-off after approx. 5 s
• of the current limitation	Iout = 1.5 x set value, switch-off after typ. 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	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	Status signal output (pulse/pause signal, can be evaluated via Simatic function block)
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

Subject to change without notice
© Copyright Siemens

chanhvinh.com

protection class IP	IP20
Approvals	
● CE marking	Yes
EMC	
standard	
● for emitted interference	EN 55022 Class B
● for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
● in horizontal mounting position during operation	-25 ... +70 °C; with natural convection
● during transport	-40 ... +85 °C
● during storage	-40 ... +85 °C
installation altitude at height above sea level maximum	6 000 m
ambient condition relating to ambient temperature - air pressure - installation altitude	In case of operation at altitudes of 2000 - 6000 m above sea level: Output power derating of -7.5 %/1000 m or reduction of the ambient temperature by 5 K/1000 m
relative humidity with condensation according to IEC 60068-2-38 maximum	100 %; RH incl. condensation/frost (no commissioning if condensation is present), horizontal installation
● chemical resistance to commercially available cooling lubricants	Yes; incl. diesel and oil droplets in the air
● resistance to biologically active substances conformity according to EN 60721-3-3	Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request
● resistance to chemically active substances conformity according to EN 60721-3-3	Yes; Class 3C4 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)
● resistance to mechanically active substances conformity according to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust
● resistance to biologically active substances conformity according to EN 60721-3-6	Yes; Class 6B2 mold, fungal, sponge spores (except fauna)
● resistance to chemically active substances conformity according to EN 60721-3-6	Yes; Class 6C3 (RH < 75%) incl. salt spray acc. to EN 60068-2-52 (severity level 3)
● resistance to mechanically active substances conformity according to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust
coating for equipped printed circuit board according to EN 61086	Yes; Class 2 for high availability
type of coating protection against pollution according to EN 60664-3	Yes; Type 1 protection
type of test of the coating according to MIL-I-46058C	Yes; Discoloration of the coating during service life possible
product conformity of the coating Qualification and Performance of Electrical Insulating Compound for Printed Board Assemblies according to IPC-CC-830A	Yes; Conformal Coating, Class A
Mechanics	
type of electrical connection	screw-type terminals
● 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 signaling contact	1 screw terminal for 0.5 ... 4 mm²
● for auxiliary contacts	Remote reset: 1 screw terminal for 0.5 ... 4 mm²
width of the enclosure	72 mm
height of the enclosure	80 mm
depth of the enclosure	72 mm
installation width	72 mm
mounting height	180 mm
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
● standard rail mounting	Yes
● S7 rail mounting	No
● wall mounting	No
product feature of the enclosure housing can be lined up	Yes
net weight	0.2 kg
mechanical accessories	Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

Subject to change without notice
© Copyright Siemens