SIEMENS

Data sheet 6AG1961-2BA41-7AA0

SIPLUS PS PSE200U 10A
SIPLUS PS PSE200U 10 A with conformal coating based on 6EP1961-2BA41 . SELECTIVITY module 4-channel 4-channel input: 24 V DC Output: 24 V DC/10 A per channel output current adjustable 3-10 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	40 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	10 A
Adjustable pick-up value current / of the current-dependent overload release	3 ... 10 A
Type of response value setting	via potentiometer
Product feature	
• parallel switching of outputs	No
• bridging of equipments	Yes

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	99 %
Power loss [W] / at rated output current / for rated value of the output current / typical	10 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	15 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
Protection class IP	IP20
Approvals	
Certificate of suitability	
• 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 storage and transport	-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 / acc. 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 acc. to EN 60721-3-3	Yes; Class 3B2 mold, fungal, sponge spores (except fauna); class 3B3 upon request
Resistance to chemically active substances / conformity acc. 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 acc. to EN 60721-3-3	Yes; Class 3S4 incl. sand, dust
Resistance to biologically active substances / conformity acc. to EN 60721-3-6	Yes; Class 6B2 mold, fungal, sponge spores (except fauna)
Resistance to chemically active substances / conformity acc. 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 acc. to EN 60721-3-6	Yes; Class 6S3 incl. sand, dust
Coating / for equipped printed circuit board / acc. 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 / acc. 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 acc. 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
Net weight	0.2 kg
Mounting type	Snaps onto DIN rail EN 60715 35x7.5/15
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)