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Data sheet 6AG2134-0TA00-3AY0



Figure similar

SIPLUS PS PSU3400 DC 24 V/10 A RAIL

SIPLUS PS PSU3400 DC 24 V/10 A rail based on 6EP3134-0TA00-0AY0 with conformal coating, -40…+70 °C, OT4 with ST1/2 (+85 °C for 10 minutes), stabilized power supply input: 24 V DC (14…32 V) output: 24 V DC/ 10 A

Input	
type of the power supply network	DC voltage
supply voltage at AC	
● initial value	Startup as of 18 V, derating necessary for 14 ... 18 V DC
supply voltage	
● at DC	24 ... 24 V
input voltage	
● at DC	14 ... 32 V
design of input wide range input	No
overvoltage overload capability	-
operating condition of the mains buffering	at Vin = 24 V
buffering time for rated value of the output current in the event of power failure minimum	5 ms
operating condition of the mains buffering	at Vin = 24 V
input current	
● at rated input voltage 24 V	10.8 A
current limitation of inrush current at 25 °C maximum	15 A
I2t value maximum	0.6 A²·s
fuse protection type	25 A (not accessible), breaking capacity 300 A
● in the feeder	Recommended miniature circuit breaker: 16 A characteristic B or C
Output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
relative overall tolerance of the voltage	1 %
relative control precision of the output voltage	
● on slow fluctuation of input voltage	0.1 %
● on slow fluctuation of ohm loading	0.3 %
residual ripple	
● maximum	150 mV
● typical	30 mV
voltage peak	
● maximum	250 mV
● typical	50 mV
adjustable output voltage	24 ... 28 V
product function output voltage adjustable	Yes
type of output voltage setting	via potentiometer
display version for normal operation	Green LED for 24 V OK
type of signal at output	Relay contact (NO contact, contact rating 30 V AC/0.5 A; 60 V DC/0.3 A; 30 V DC/1 A) for 24 V O.K.
behavior of the output voltage when switching on	No overshoot of Vout (soft start)

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response delay maximum	0.5 s
voltage increase time of the output voltage	
● typical	10 ms
● maximum	20 ms
output current	
● rated value	10 A
● rated range	0 ... 12.5 A; 12 A up to +40°C; +60 ... +70 °C: Derating 2%/K
supplied active power typical	260 W
product feature	
● parallel switching of outputs	can be set with DIP switch
● bridging of equipment	Yes; switchable characteristic
number of parallel-switched equipment resources for increasing the power	2
Efficiency	
efficiency in percent	93 %
power loss [W]	
● at rated output voltage for rated value of the output current typical	20 W
● during no-load operation maximum	1.5 W
Closed-loop control	
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	0.3 %
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	2 %
setting time	
● load step 50 to 100% typical	1 ms
● load step 100 to 50% typical	1 ms
Protection and monitoring	
design of the overvoltage protection	Ua < 35 V
● typical	13 A
property of the output short-circuit proof	Yes
design of short-circuit protection	Electronic shutdown, automatic restart
display version for overload and short circuit	LED yellow for "overload"
Safety	
galvanic isolation between input and output	Yes
galvanic isolation	Safety extra low output voltage Vout according to EN 60950-1
operating resource protection class	Class III
protection class IP	IP20
Approvals	
certificate of suitability	
● CE marking	Yes
certificate of suitability	
● railway application in accordance with EN 50121-3-2	Yes; EMC for rail vehicles
● railway application in accordance with EN 50124-1	Yes
● railway application in accordance with EN 50125-1	Yes; Rail vehicles - see ambient conditions
● railway application in accordance with EN 50155	Yes; Rail vehicles - Temperature class OT3, ST1/ST2, horizontal installation
● railway application in accordance with EN 61373	Yes; Rail vehicles - vibrations and shocks: Category 1 Class A/B
● fire protection in accordance with EN 45545-2	Yes; Proof see Service & Support
EMC	
standard	
● for emitted interference	EN 61000-6-3
● for mains harmonics limitation	not applicable
● for interference immunity	EN 61000-6-2
environmental conditions	
ambient temperature	
● during operation	-25 ... +70 °C
● during transport	-40 ... +85 °C
● during storage	-40 ... +85 °C
● 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

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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
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 coating for electronic devices in railway applications according to EN 50155	Yes; Protective coating of Class PC2 acc. to EN 50155:2017
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	L, N, FE: 1 screw terminal each for 0.5 ... 2.5 mm² single-core/finely stranded
● at output	+, -: 2 screw terminals each for 0.5 ... 2.5 mm²
● for auxiliary contacts	Alarm signals: 2 screw terminals for 0.5 ... 2.5 mm²
● for signaling contact	2 screw terminals for 0.5 ... 2.5 mm²
width of the enclosure	42 mm
height of the enclosure	125 mm
depth of the enclosure	120 mm
required spacing	
● top	50 mm
● bottom	50 mm
● left	0 mm
● right	0 mm
net weight	0.6 kg
product feature of the enclosure housing can be lined up	Yes
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Buffer module
MTBF at 40 °C	1 579 080 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

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