Data sheet

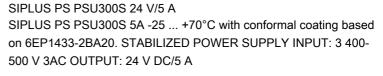




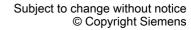
Figure similar

Input	
Input	3-phase AC
Rated voltage value Vin rated	400 500 V
Voltage range AC	340 550 V
Wide-range input	Yes
Mains buffering	at Vin = 400 V
Mains buffering at lout rated, min.	18 ms; at Vin = 400 V
Rated line frequency 1	50 Hz
Rated line frequency 2	60 Hz
Rated line range	47 63 Hz
input current	
 at rated input voltage 400 V 	0.45 A
 at rated input voltage 500 V 	0.4 A
Switch-on current limiting (+25 °C), max.	20 A
I²t, max.	0.5 A²·s
Built-in incoming fuse	none

Required: 3-pole connected miniature circuit breaker 3 ... 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489-listed, DIVQ)

	01112111 12210 (OL 100 11010d, 2114)	
Output		
Output	Controlled, isolated DC voltage	
Rated voltage Vout DC	24 V	
Total tolerance, static ±	3 %	
Static mains compensation, approx.	0.1 %	
Static load balancing, approx.	0.1 %	
Residual ripple peak-peak, max.	200 mV	
Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV	
Adjustment range	24 28 V	
product function output voltage adjustable	Yes	
Output voltage setting	via potentiometer; max. 120 W	
Status display	Green LED for 24 V OK	
Signaling	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	
On/off behavior	Overshoot of Vout < 5 %	
Startup delay, max.	1.5 s	
Voltage rise, typ.	60 ms	
voltage increase time of the output voltage maximum	500 ms	
Rated current value lout rated	5 A	
Current range	0 5 A	
• Note	6 A up to +45°C; +60 +70 °C: Derating 5%/K	
supplied active power typical	120 W	
Parallel switching for enhanced performance	Yes	
Numbers of parallel switchable units for enhanced	2	
performance		
Efficiency		
Efficiency at Vout rated, lout rated, approx.	89.5 %	
Power loss at Vout rated, lout rated, approx.	14 W	
Closed-loop control		
Dynamic mains compensation (Vin rated ±15 %),	1 %	
max.		
Dynamic load smoothing (lout: 50/100/50 %), Uout ±	1 %	
typ.		
Load step setting time 50 to 100%, typ.	3 ms	
Load step setting time 100 to 50%, typ.	3 ms	
Dynamic load smoothing (lout: 10/90/10 %), Uout ±	3 %	
typ.		
1 1 1 11 11 11 10 1000/ 1		
Load step setting time 10 to 90%, typ.	4 ms	
Load step setting time 10 to 90%, typ. Load step setting time 90 to 10%, typ.	4 ms	





PNAP

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Outrout accompations must action	material and in the second second facility and a 25 V
Output overvoltage protection	protection against overvoltage in case of internal fault Vout < 35 V
Current limitation, typ.	6.6 A
property of the output short-circuit proof	Yes
Short-circuit protection	Constant current characteristic
enduring short circuit current RMS value	
• maximum	8 A
overcurrent overload capability in normal operation	overload capability 150 % lout rated up to 5 s/min
Safety	
Primary/secondary isolation	Yes
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178, transformer acc. to EN 61558-2-16
Protection class	Class I
Degree of protection (EN 60529)	IP20
Approvals	
CE mark	Yes
<u></u>	
EMC .	
Emitted interference	EN 55022 Class B
Supply harmonics limitation	EN 61000-3-2
Noise immunity	EN 61000-6-2
environmental conditions	
ambient temperature in horizontal mounting position	-40; Startup @ -25 °C +70; with natural convection
during operation	
ambient temperature during storage and transport	-40 +85
installation altitude at height above sea level	6 000 m
maximum	f (* 1.11") f (0000 0000)
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	100 %; RH incl. condensation/frost (no commissioning if
60068-2-38 maximum	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	
Connection technology	screw-type terminals
Connections	
Supply input	L1, L2, L3, PE: 1 screw terminal each for 0.05 2.5 mm ² single-core/finely stranded
Output	+, -: 2 screw terminals each for 0.2 2.5 mm²
Auxiliary	13, 14 (alarm signal): 1 screw terminal each for 0.2 2.5 mm²
width of the enclosure	50 mm
height of the enclosure	125 mm
depth of the enclosure	120 mm
Weight, approx.	0.5 kg
product feature of the enclosure housing for side-by- side mounting	Yes
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
electrical accessories	Redundancy module, buffer module, selectivity module, DC UPS
mechanical accessories	Device identification label 20 mm × 7 mm, pale turquoise 3RT1900-1SB20
MTBF at 40 °C	500 000 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

