SIEMENS

Data sheet



SITOP PSU8200/3AC/24VDC/20A

SITOP PSU8200 24 V/20 A stabilized power supply input: 400-500 V 3 AC output: 24 V DC/20 A

supply voltage at AC * minimum rated value * maximum rated value * initial value * initial value * initial value * fill-scale value * first scale val	input	
minimum rated value maximum rated value maximum rated value initial value silul-scale value full-scale value full-scale value full-scale value full-scale value for rated value of the output current in the event of power failure minimum operating condition of the mains buffering at Vin = 400 V line frequency fine frequency fine frequency fine frequency for at rated input voltage 400 V at rated input voltage 500 V full accurrent limitation of inush current at 25 °C maximum fuls per operation type fuse protection type in the feeder fuse protection type in the feeder concluding a DC rated value output voltage adjustable at output voltage at output voltage at output voltage at output voltage at output voltage at output voltage output voltage output voltage at output voltage output voltage at output voltage at output voltage output voltage output voltage output voltage at output output voltage output voltage output voltage at output voltage ou	type of the power supply network	3-phase AC
initial value inviter range input Ves buffering time for rated value of the output current in the event of bower failure minimum operating condition of the mains buffering inite frequency initial value in at value in value in at value in value in value in at value in value	supply voltage at AC	
● initial value 320 V ● full-scale value 575 V wide range input Yes buffering time for rated value of the output current in the event of power failure minimum 15 ms operating condition of the mains buffering at Vin = 400 V line frequency 50/60 Hz line frequency 47 63 Hz input current • at rated input voltage 500 V 1.2 A • at rated input voltage 500 V 1.6 A L2 value maximum 0.8 A*s fuse protection type none fuse protection type in the feeder Required: 3-pole connected miniature circuit breaker 6 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 48s) output Voltage curve at output Controlled, isolated DC voltage output voltage at DC rated value 24 V output voltage output voltage 24 28 V; max. 480 W relative overall tolerance of the voltage 0.1 % • on slow fluctuation of hm loading 0.2 % <td> minimum rated value </td> <td>400 V</td>	 minimum rated value 	400 V
wide range input yes buffering time for rated value of the output current in the event of power failure minimum operating condition of the mains buffering at Vin = 400 V line frequency 50/60 Hz line frequency 47 63 Hz input current • at rated input voltage 400 V • at rated input voltage 400 V • at rated input voltage 500 V 1 A current limitation of inrush current at 25 °C maximum 16 A L2t value maximum 0.8 8 x²s fuse protection type in the feeder neguency 24 V voltage curve at output voltage 400 V • at output voltage 300 V cutput voltage 300 V cutput voltage 300 V cutput voltage 400 V • at a rated input voltage 400 V • at rated input voltage 500 V 1A current limitation of inrush current at 25 °C maximum 16 A L2t value maximum 0.8 8 x²s fuse protection type in the feeder neguence 3.9 pole connected miniature circuit breaker 6 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) output voltage curve at output 24 V output voltage at DC rated value 24 V output voltage adjustable 24 V output voltage adjustable 40 voltage 24 V output voltage adjustable 50 voltage 24 V output voltage adjustable 60 voltage 24 V output voltage adjustable 61 voltage 24 V output voltage adjustable 62 voltage 24 V output voltage adjustable 63 voltage 24 V output voltage adjustable 70 voltage 70 volt	 maximum rated value 	500 V
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buffering lime for rated value of the output current in the event of power failure minimum operating condition of the mains buffering line frequency line fr	• full-scale value	575 V
power failure minimum operating condition of the mains buffering line frequency line frequency line frequency line frequency 47 63 Hz line frequency 48 at rated input voltage 400 V 40	wide range input	Yes
line frequency 50/60 Hz line frequency 47 63 Hz linput current • at rated input voltage 400 V 1.2 A • at rated input voltage 500 V 1 A current limitation of inrush current at 25 °C maximum 16 A 12t value maximum 0.8 A²-s fuse protection type in the feeder none fuse protection type in the feeder Required: 3-pole connected miniature circuit breaker 6 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) output voltage curve at output Controlled, isolated DC voltage output voltage at DC rated value 24 V output voltage adjustable Yes; via potentiometer adjustable output voltage Yes; via potentiometer adjustable output voltage Yes; via potentiometer adjustable output voltage 3 % relative control precision of the output voltage • on slow fluctuation of input voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading 0.2 % residual ripple • maximum 100 mV voltage peak • maximum 200 mV display version for normal operation Green LED for 24 V OK type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" behavior of the output voltage wene switching on No overshoot of Vout (soft start)		15 ms
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input current • at rated input voltage 400 V • at rated input voltage 500 V 1 A Current limitation of inrush current at 25 °C maximum 16 A 12t value maximum 0.8 A²-s fuse protection type none fuse protection type in the feeder Required: 3-pole connected miniature circuit breaker 6 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) output voltage curve at output coutput voltage at DC rated value 0utput voltage • at output 1 at DC rated value 24 V output voltage adjustable adjustable output voltage 124 28 V; max. 480 W relative overall tolerance of the voltage 9 on slow fluctuation of input voltage 9 on slow fluctuation of input voltage 9 on slow fluctuation of ohm loading residual ripple 9 maximum 100 mV voltage peak 9 maximum 200 mV display version for normal operation 4 Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" behavior of the output voltage when switching on No overshoot of Vout (soft start)	line frequency	50/60 Hz
• at rated input voltage 400 V • at rated input voltage 500 V 1 A current limitation of inrush current at 25 °C maximum 16 A 12t value maximum 0.8 A²-s 10se protection type 10se protection type in the feeder 10se paw 24 V 10se paw 3 No and 24 V 10se peak 10se paw 3 No and 25 No	line frequency	47 63 Hz
• at rated input voltage 500 V current limitation of inrush current at 25 °C maximum 16 A 12t value maximum 0.8 A²-s fuse protection type fuse protection type in the feeder fuse protection type in the feeder voltage curve at output voltage curve at output output voltage at DC rated value • at output 1 at DC rated value output voltage adjustable adjustable output voltage voltage deverall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading • maximum voltage peak • maximum display version for normal operation display version for the output voltage when switching on No overshoot of Vout (soft start) 16 A 16 A 16 A 18 A	input current	
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12t value maximum 0.8 A²-s fuse protection type none	 at rated input voltage 500 V 	1 A
fuse protection type fuse protection type in the feeder Required: 3-pole connected miniature circuit breaker 6 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) output voltage curve at output output voltage at DC rated value • at output 1 at DC rated value output voltage adjustable adjustable output voltage • at output voltage 24 V output voltage adjustable Yes; via potentiometer adjustable output voltage 24 28 V; max. 480 W relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum 100 mV voltage peak • maximum 200 mV display version for normal operation Green LED for 24 V OK type of signal at output voltage when switching on No overshoot of Vout (soft start)	current limitation of inrush current at 25 °C maximum	16 A
Required: 3-pole connected miniature circuit breaker 6 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) voltage curve at output Controlled, isolated DC voltage output voltage at DC rated value 24 V output voltage adjustable 24 V output voltage adjustable Yes; via potentiometer adjustable output voltage 24 28 V; max. 480 W relative overall tolerance of the voltage 0.1 % on slow fluctuation of input voltage 0.2 % residual ripple on slow fluctuation of ohm loading 0.2 % residual ripple omaximum 100 mV voltage peak omaximum 200 mV display version for normal operation Green LED for 24 V OK type of signal at output voltage when switching on No overshoot of Vout (soft start)	I2t value maximum	0.8 A ² ·s
or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value output voltage adjustable adjustable output voltage relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum voltage peak • maximum display version for normal operation display version for normal operation for each of the output voltage or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489) Controlled, isolated DC voltage 24 V Controlled, isolated DC voltage 24 V 24 V 0.4 V 9.24 V 0.5 Ves; via potentiometer 24 W 3 % 0.1 % 0.2 % 0.1 % 0.2 % 100 mV voltage peak • maximum 200 mV display version for normal operation Green LED for 24 V OK type of signal at output behavior of the output voltage when switching on No overshoot of Vout (soft start)	fuse protection type	none
voltage curve at output output voltage at DC rated value output voltage • at output 1 at DC rated value 24 V output voltage adjustable output voltage adjustable adjustable output voltage relative overall tolerance of the voltage • on slow fluctuation of input voltage • on slow fluctuation of ohm loading residual ripple • maximum 100 mV voltage peak • maximum display version for normal operation type of signal at output Controlled, isolated DC voltage 24 V Coutput voltage 24 V Controlled, isolated DC voltage 24 V Coutput voltage 24 V Controlled, isolated DC voltage 24 V Coutput voltage 24 V Controlled, isolated DC voltage 24 V Coutput voltage 24 V Controlled, isolated DC voltage 24 V Controlled, isolated DC voltage 24 V Coutput voltage 24 V Controlled, isolated DC voltage 24 V Coutput voltage 24 V Controlled, isolated DC voltage 24 V Coutput voltage 24 V	fuse protection type in the feeder	
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output voltage	voltage curve at output	Controlled, isolated DC voltage
output voltage adjustable output voltage adjustable adjustable output voltage 24 28 V; max. 480 W relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 100 mV voltage peak maximum 200 mV display version for normal operation type of signal at output behavior of the output voltage when switching on Yes; via potentiometer 24 28 V; max. 480 W 7 exit page (3 % 100 mX 100 mV 100 mV 200 mV Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" No overshoot of Vout (soft start)	output voltage at DC rated value	24 V
output voltage adjustable adjustable output voltage 24 28 V; max. 480 W relative overall tolerance of the voltage a on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 100 mV voltage peak maximum 200 mV display version for normal operation type of signal at output behavior of the output voltage when switching on Yes; via potentiometer 24 28 V; max. 480 W 3 % 100 mV 0.1 % 0.2 % 100 mV 100 mV Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" No overshoot of Vout (soft start)	output voltage	
adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 100 mV voltage peak maximum 200 mV display version for normal operation type of signal at output behavior of the output voltage when switching on 24 28 V; max. 480 W 3 % 100 mV 0.1 % 0.2 % 100 mV 100 mV Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	at output 1 at DC rated value	24 V
adjustable output voltage relative overall tolerance of the voltage relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 100 mV voltage peak maximum 200 mV display version for normal operation type of signal at output behavior of the output voltage when switching on 24 28 V; max. 480 W 3 % 100 mV 0.1 % 0.2 % 100 mV 100 mV Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"	output voltage adjustable	Yes; via potentiometer
relative control precision of the output voltage on slow fluctuation of input voltage on slow fluctuation of ohm loading residual ripple maximum 100 mV voltage peak maximum 200 mV display version for normal operation type of signal at output behavior of the output voltage when switching on No overshoot of Vout (soft start)	<u> </u>	24 28 V; max. 480 W
 on slow fluctuation of input voltage on slow fluctuation of ohm loading 7 cesidual ripple maximum maximum 100 mV voltage peak maximum maximum 200 mV display version for normal operation display version for normal operation Green LED for 24 V OK type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" behavior of the output voltage when switching on No overshoot of Vout (soft start) 	relative overall tolerance of the voltage	3 %
 on slow fluctuation of ohm loading residual ripple maximum voltage peak maximum a maximum b maximum 200 mV display version for normal operation display version for normal operation type of signal at output behavior of the output voltage when switching on No overshoot of Vout (soft start) 	relative control precision of the output voltage	
residual ripple maximum 100 mV voltage peak maximum 200 mV display version for normal operation display version for normal operation type of signal at output Behavior of the output voltage when switching on No overshoot of Vout (soft start)	on slow fluctuation of input voltage	0.1 %
maximum voltage peak maximum 200 mV display version for normal operation display version for normal operation Green LED for 24 V OK type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" behavior of the output voltage when switching on No overshoot of Vout (soft start)	on slow fluctuation of ohm loading	0.2 %
voltage peak		
● maximum 200 mV display version for normal operation Green LED for 24 V OK type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" behavior of the output voltage when switching on No overshoot of Vout (soft start)	maximum	100 mV
display version for normal operation Green LED for 24 V OK type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" behavior of the output voltage when switching on No overshoot of Vout (soft start)	voltage peak	
type of signal at output Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK" behavior of the output voltage when switching on No overshoot of Vout (soft start)	maximum	200 mV
behavior of the output voltage when switching on No overshoot of Vout (soft start)	display version for normal operation	Green LED for 24 V OK
	type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
response delay maximum 2.5 s	behavior of the output voltage when switching on	No overshoot of Vout (soft start)
	· · · · · · · · · · · · · · · · · · ·	2.5 s

voltage increase time of the output voltage	
• maximum	500 ms
output current	
rated value	20 A
rated range	0 20 A; +60 +70 °C: Derating 2%/K
supplied active power typical	480 W
short-term overload current	
at short-circuit during operation typical	60 A
duration of overloading capability for excess current	0071
at short-circuit during operation	25 ms
constant overload current	20 1110
	22 A
on short-circuiting during the start-up typical bridging of aguinment	Yes; switchable characteristic
bridging of equipment	·
number of parallel-switched equipment resources for increasing the power	2
efficiency	
efficiency in percent	94 %
power loss [W]	
at rated output voltage for rated value of the output	31 W
current typical	
closed-loop control	
relative control precision of the output voltage with rapid	0.1 %
fluctuation of the input voltage by +/- 15% typical	
relative control precision of the output voltage load step of	1 %
resistive load 50/100/50 % typical	
setting time	
load step 50 to 100% typical	0.2 ms
load step 100 to 50% typical	0.2 ms
relative control precision of the output voltage at load step of resistive load 10/90/10 % typical	2 %
setting time	
 load step 10 to 90% typical 	0.2 ms
 load step 90 to 10% typical 	0.2 ms
• maximum	10 ms
protection and monitoring	
design of the overvoltage protection	< 32 V
	Yes
property of the output short-circuit proof	165
	Alternatively, constant current characteristic approx. 22 A or latching shutdown
property of the output short-circuit proof	
property of the output short-circuit proof design of short-circuit protection	Alternatively, constant current characteristic approx. 22 A or latching shutdown
property of the output short-circuit proof design of short-circuit protection • typical	Alternatively, constant current characteristic approx. 22 A or latching shutdown
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown"
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown"
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown"
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 EN 55022 Class B
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 EN 55022 Class B EN 61000-3-2
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 EN 55022 Class B
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 EN 55022 Class B EN 61000-3-2
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability • CE marking	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2
property of the output short-circuit proof design of short-circuit protection • typical overcurrent overload capability • in normal operation enduring short circuit current RMS value • typical display version for overload and short circuit safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard • for emitted interference • for mains harmonics limitation • for interference immunity standards, specifications, approvals certificate of suitability	Alternatively, constant current characteristic approx. 22 A or latching shutdown 22 A overload capability 150 % lout rated up to 5 s/min 22 A LED yellow for "overload", LED red for "latching shutdown" Yes Safety extra low output voltage Vout according to EN 60950-1 Class I 3.5 mA 0.9 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2

CSA approval	Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus
	(CSA C22.2 No. 60950-1, UL 60950-1)
EAC approval	Yes
 Regulatory Compliance Mark (RCM) 	Yes
NEC Class 2	No
● SEMI F47	Yes
type of certification	
• BIS	Yes; R-41188271
CB-certificate	Yes
MTBF at 40 °C	590 573 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• IECEx	No
• ATEX	No
ULhazloc approval	No
• cCSAus, Class 1, Division 2	No
FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
American Bureau of Shipping Europe Ltd. (ABS)	Yes
*** *** *** ***	No
French marine classification society (BV) Det Norsko Veritas (DNV)	
Det Norske Veritas (DNV) Llevide Register of Shipping (LDS)	Yes
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product De	
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	989 kg
 during manufacturing 	18.9 kg
during operation	970 kg
after end of life	0.27 kg
ambient conditions	
ambient temperature	
during operation	-25 +70; With natural convection; startup tested starting from -40 $^{\circ}\text{C}$ nominal voltage
during transport	-40 +85
during storage	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
type of electrical connection	
type of electrical connection	screw terminal
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded
	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely
• at input	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16
at inputat outputfor auxiliary contacts	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm²
at input at output for auxiliary contacts mechanical data	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm²
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm² 70 × 125 × 125 mm
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm²
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm² 70 × 125 × 125 mm 70 mm × 225 mm
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm² 70 × 125 × 125 mm 70 mm × 225 mm
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm² 70 × 125 × 125 mm 70 mm × 225 mm
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm² 70 × 125 × 125 mm 70 mm × 225 mm
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm² 70 × 125 × 125 mm 70 mm × 225 mm 50 mm 50 mm
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm² 70 × 125 × 125 mm 70 mm × 225 mm 50 mm 50 mm 0 mm
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm² 70 × 125 × 125 mm 70 mm × 225 mm 50 mm 50 mm 0 mm
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm² 70 × 125 × 125 mm 70 mm × 225 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm² 70 × 125 × 125 mm 70 mm × 225 mm 50 mm 50 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting S7 rail mounting	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm² 70 × 125 × 125 mm 70 mm × 225 mm 50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting wall mounting wall mounting	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm² 70 × 125 × 125 mm 70 mm × 225 mm 50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No
at input at output for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing top bottom left right fastening method standard rail mounting Y7 rail mounting wall mounting housing can be lined up	L1, L2, L3, PE: 1 screw terminal each for 0.2 4 mm² single-core/finely stranded +, -: 2 screw terminals each for 0.2 4 mm² 13, 14 (alarm signal): 1 screw terminal each for 0.14 1.5 mm²; 15, 16 (Remote): 1 screw terminal each for 0.14 1.5 mm² 70 × 125 × 125 mm 70 mm × 225 mm 50 mm 50 mm 0 mm Snaps onto DIN rail EN 60715 35x7.5/15 Yes No No Yes

Device identification label 20 mm × 7 mm, Tl-grey 3RT2900-1SB20 mechanical accessories further information internet links internet link https://mall.industry.siemens.com • to website: Industry Mall • to web page: selection aid TIA Selection Tool https://www.siemens.com/tstcloud • to web page: power supplies https://siemens.com/sitop • to website: CAx-Download-Manager https://siemens.com/cax • to website: Industry Online Support https://support.industry.siemens.com

other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

security information

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

	Version	Classification
eClass	14	27-04-07-01
eClass	12	27-04-07-01
eClass	9.1	27-04-07-01
eClass	9	27-04-07-01
eClass	8	27-04-90-02
eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
ETIM	9	EC002540
ETIM	8	EC002540
ETIM	7	EC002540
IDEA	4	4130
UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval



Manufacturer Declara-<u>tion</u>

Declaration of Conformity





General Product Approval

Marine / Shipping

Environment





BIS CRS







11/25/2024 last modified:



SIEMENS

Data sheet



SITOP PSU8200/3AC/24VDC/40A

SITOP PSU8200 24 V/40 A stabilized power supply input: 400-500 V 3 AC output: 24 V DC/40 A

input	
type of the power supply network	3-phase AC
supply voltage at AC	
minimum rated value	400 V
maximum rated value	500 V
initial value	320 V
• full-scale value	575 V
wide range input	Yes
buffering time for rated value of the output current in the event of power failure minimum	10 ms
operating condition of the mains buffering	at Vin = 400 V
line frequency	50/60 Hz
line frequency	45 65 Hz
input current	
 at rated input voltage 400 V 	2.1 A
 at rated input voltage 500 V 	1.7 A
current limitation of inrush current at 25 °C maximum	13 A
I2t value maximum	2.24 A²·s
fuse protection type	none
fuse protection type in the feeder	Required: 3-pole connected miniature circuit breaker 10 16 A characteristic C or circuit breaker 3RV2011-1DA10 (setting 3 A) or 3RV2711-1DD10 (UL 489)
output	
voltage curve at output	Controlled, isolated DC voltage
output voltage at DC rated value	24 V
output voltage	
 at output 1 at DC rated value 	24 V
output voltage adjustable	Yes; via potentiometer
adjustable output voltage	24 28 V; max. 960 W
relative overall tolerance of the voltage	3 %
relative control precision of the output voltage	
on slow fluctuation of input voltage	0.1 %
on slow fluctuation of ohm loading	0.2 %
residual ripple	
maximum	100 mV
voltage peak	
• maximum	240 mV
display version for normal operation	Green LED for 24 V OK
type of signal at output	Relay contact (NO contact, rating 60 V DC/ 0.3 A) for "24 V OK"
behavior of the output voltage when switching on	minimal overshooting (< 2 %)
response delay maximum	0.1 s
• • • • • • • • • • • • • • • • • • • •	

voltage increase time of the output voltage		
• maximum	100 ms	
output current		
• rated value	40 A	
rated range	0 40 A; +60 +70 °C: Derating 4%/K	
supplied active power typical	960 W	
short-term overload current		
at short-circuit during operation typical	120 A	
duration of overloading capability for excess current		
at short-circuit during operation	25 ms	
constant overload current		
on short-circuiting during the start-up typical	44 A	
bridging of equipment	Yes; switchable characteristic	
number of parallel-switched equipment resources for increasing the power	2	
efficiency		
efficiency in percent	94 %	
power loss [W]		
 at rated output voltage for rated value of the output current typical 	66 W	
during no-load operation maximum	4 W	
closed-loop control		
relative control precision of the output voltage with rapid fluctuation of the input voltage by +/- 15% typical	1 %	
relative control precision of the output voltage load step of resistive load 50/100/50 % typical	3 %	
setting time		
• maximum	10 ms	
protection and monitoring		
design of the overvoltage protection	< 31.8 V	
property of the output short-circuit proof	Yes	
design of short-circuit protection	Alternatively, constant current characteristic approx. 44 A or latching shutdown	
• typical	44 A	
overcurrent overload capability		
• in normal operation	overload capability 150 % lout rated up to 5 s/min	
enduring short circuit current RMS value		
• typical	50 A	
display version for overload and short circuit	LED yellow for "overload", LED red for "latching shutdown"	
safety		
galvanic isolation between input and output	Yes	
galvanic isolation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178	
operating resource protection class	Class I	
leakage current		
• maximum	1 mA	
• typical	0.6 mA	
protection class IP	IP20	
EMC		
standard	FN FF000 Class D	
for emitted interference for major harmonica limitation	EN 55022 Class B	
for mains harmonics limitation for interference immunity	EN 61000-3-2	
• for interference immunity	EN 61000-6-2	
standards, specifications, approvals		
certificate of suitability	Voc	
CE markingUL approval	Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	
CSA approval	(CSA C22.2 No. 60950-1, UL 60950-1) Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259; cCSAus	
a FAC approval	(CSA C22.2 No. 60950-1, UL 60950-1)	
EAC approval Pagulatan Compliance Mark (BCM)	Yes	
Regulatory Compliance Mark (RCM) NEC Class 3	Yes	
NEC Class 2 SEMI F47	No Voo	
• SEMI F47	Yes	

type of certification	
• BIS	Yes; R-41183539
CB-certificate	Yes
MTBF at 40 °C	517 015 h
standards, specifications, approvals hazardous environments	
certificate of suitability	
• IECEx	No
• ATEX	No
ULhazloc approval	No
• cCSAus, Class 1, Division 2	No
FM registration	No
standards, specifications, approvals marine classification	
shipbuilding approval	Yes
Marine classification association	
 American Bureau of Shipping Europe Ltd. (ABS) 	Yes
French marine classification society (BV)	No
Det Norske Veritas (DNV)	Yes
Lloyds Register of Shipping (LRS)	No
standards, specifications, approvals Environmental Product De	*
Environmental Product Declaration	Yes
Global Warming Potential [CO2 eq]	
• total	2 118.7 kg
during manufacturing	52 kg
during operation	2 065.2 kg
after end of life	0.74 kg
ambient conditions	
ambient temperature	
during operation	-25 +70; With natural convection
during transport	-40 +85
during storage	-40 +85
environmental category according to IEC 60721	Climate class 3K3, 5 95% no condensation
connection method	
	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded
connection method type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely
connection method type of electrical connection • at input	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5
type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5
connection method type of electrical connection • at input • at output • for auxiliary contacts	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5
type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm²
type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm²
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connection method type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm
connection method type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm
connection method type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm 40 mm 40 mm
connection method type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm 40 mm 40 mm 0 mm
connection method type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm 40 mm 40 mm 0 mm 0 mm
connection method type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm 40 mm 40 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15
type of electrical connection • at input • at output • for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing • top • bottom • left • right fastening method • standard rail mounting	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm 40 mm 40 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes
connection method type of electrical connection • at input • at output • for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing • top • bottom • left • right fastening method • standard rail mounting • S7 rail mounting	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm 40 mm 40 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No
type of electrical connection • at input • at output • for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing • top • bottom • left • right fastening method • standard rail mounting • S7 rail mounting • wall mounting	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm 40 mm 40 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No
type of electrical connection • at input • at output • for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing • top • bottom • left • right fastening method • standard rail mounting • wall mounting housing can be lined up	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm 40 mm 40 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes
type of electrical connection • at input • at output • for auxiliary contacts mechanical data width × height × depth of the enclosure installation width × mounting height required spacing • top • bottom • left • right fastening method • standard rail mounting • S7 rail mounting • wall mounting housing can be lined up net weight	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm 40 mm 40 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes
connection method type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm 40 mm 40 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes 3.3 kg
connection method type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm 40 mm 40 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes 3.3 kg Buffer module
type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm 40 mm 40 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes 3.3 kg Buffer module
type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm 40 mm 40 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes 3.3 kg Buffer module Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm 40 mm 0 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes 3.3 kg Buffer module Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20
type of electrical connection	screw terminal L1, L2, L3, PE: 1 screw terminal each for 0.5 4 mm² single-core/finely stranded +: 2 screw terminals each for 0.5 16 mm²; -: 3 screw terminals each for 0.5 16 mm² 13, 14 (alarm signal), 15, 16 (Remote): 1 screw terminal each for 0.05 2.5 mm² 135 × 145 × 150 mm 135 mm × 225 mm 40 mm 40 mm 0 mm Snaps onto DIN rail EN 60715 35x15 Yes No No Yes 3.3 kg Buffer module Device identification label 20 mm × 7 mm, TI-grey 3RT2900-1SB20

• to website: CAx-Download-Manager

• to website: Industry Online Support

https://siemens.com/cax

https://support.industry.siemens.com

additional information

other information

Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

security information

security information

Siemens provides products and solutions with industrial cybersecurity functions that support the secure operation of plants, systems, machines and networks. In order to protect plants, systems, machines and networks against cyber threats, it is necessary to implement – and continuously maintain – a holistic, state-of-the-art industrial cybersecurity concept. Siemens' products and solutions constitute one element of such a concept. Customers are responsible for preventing unauthorized access to their plants, systems, machines and networks. Such systems, machines and components should only be connected to an enterprise network or the internet if and to the extent such a connection is necessary and only when appropriate security measures (e.g. firewalls and/or network segmentation) are in place. For additional information on industrial cybersecurity measures that may be implemented, please visit www.siemens.com/cybersecurity-industry. Siemens' products and solutions undergo continuous development to make them more secure. Siemens strongly recommends that product updates are applied as soon as they are available and that the latest product versions are used. Use of product versions that are no longer supported, and failure to apply the latest updates may increase customer's exposure to cyber threats. To stay informed about product updates, subscribe to the Siemens Industrial Cybersecurity RSS Feed under https://www.siemens.com/cert. (V4.7)

Classifications

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eClass	14	27-04-07-01
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eClass	7.1	27-04-90-02
eClass	6	27-04-90-02
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ETIM	8	EC002540
ETIM	7	EC002540
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UNSPSC	15	39-12-10-04

Approvals Certificates

General Product Approval





Manufacturer Declara-<u>tion</u>

Declaration of Conformity





General Product Approval

Marine / Shipping

Environment



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11/25/2024

