## SIEMENS

## Data sheet

## 6EP1336-1LB00



SITOP PSU100L/1AC/24VDC/20A

SITOP PSU100L 24 V/20 A Stabilized power supply input: 100-240 V AC output: 24 V DC/20 A

type of the power supply network         1-phase AC or DC           supply voltage at AC         100 V           • minimum rated value         240 V           • initial value         85 V           • full-scale value         264 V           supply voltage at DC         100 240 V           input voltage at DC         88 370 V           wide range input         Yes           buffering time for rated value of the output current in the event of power failure minimum         20 ms           operating condition of the mains buffering         at Vin = 93/187 V           Ine frequency         5050 Hz           ine frequency         5050 Hz           ine frequency         5050 Hz           ine frequency         555 A           • at rated input voltage 230 V         235 A           current limitage 125 °C         •           • typicial         15 ms           121 value maximum         3.3 A*s           fuse protection type         T 10.4250 V (not accessible)           tisse protection type in the feeder         Recommended miniature circuit breaker: from 10 A characteristic C           output voltage         24 V           output voltage at DC rated value         24 V           output 1 at DC rated value         24 V	input			
• minimum rated value     100 V       • maximum rated value     240 V       • initial value     85 V       • full scale value     264 V       supply voltage at DC     100 240 V       input voltage at DC     88 370 V       wide range input     Yes       buffering time for rated value of the output current in the event of power failure minimum     20 ms       operating condition of the mains buffering     at Vin = 93/187 V       ine frequency     5060 Hz       ine frequency     50560 Hz       ine frequency     50560 Hz       ine frequency     50560 Hz       ine frequency     50560 Hz       ine frequency     555 A       • at rated input voltage 120 V     525 A       • at rated input voltage 200 V     2.35 A       current limitation of innush current at 25 °C     45 A       duration of innush current at 25 °C     55 A       • at rated input voltage 200 V     2.35 A       current limitation of innush current at 25 °C     55 A       • typical     10 A/250 V (not accessible)       fuse protection type     T 10 A/250 V (not accessible)       fuse protection type in the feeder     Controlled, isolated DC voltage       output voltage at DC rated value     24 V       output voltage at DC rated value     24 V	type of the power supply network	1-phase AC or DC		
• maximum rated value240 V• initial value85 V• full-scale value264 Vsupply votage at DC100 240 Vinput votage at DC88 370 Vwide range inputYesbuffering time for rated value of the output current in the event of power failure minimum20 msoperating condition of the mains bufferingat Vin = 93/187 Vline frequency50/60 Hzline frequency70 63 Hzinput current5.55 A• at rated input votage 120 V5.55 A• at rated input votage 230 V2.35 Acurrent limiting of current at 25 °C maximum45 Aduration of innush current at 25 °C15 ms121 value maximum3.3 A*sfuse protection typeT 10 A/250 V (not accessible)fuse protection typeT 10 A/250 V (not accessible)votage curve at outputControlled, isolated DC votageoutput votage24 Voutput votage24 Voutput votage24 Voutput votage24 Voutput votage24 Voutput votage28 86 4 Vrelative coveral location of the output votage28 86 4 Vrelative control procesion of the output votage1 %relative control procesion of the output votage28 86 4 Vrelative coveral location of the output votage1 %relative coveral location of the output votage28 86 4 Vrelative coveral location of the votage28 86 4 Vrelative coveral location of the votage <td< td=""><td>supply voltage at AC</td><td></td></td<>	supply voltage at AC			
• initial value     85 V       • full-scale value     264 V       supply voltage at DC     100 240 V       Input voltage at DC     88 370 V       wide range input     Yes       buffering time for rated value of the output current in the event of power failure minimum     20 ms       opperating condition of the mains buffering     at Vin = 93/187 V       line frequency     50:60 Hz       line frequency     47 63 Hz       input outrent     5:55 A       • at rated input voltage 120 V     5:55 A       • at rated input voltage 230 V     2:35 A       current limitation of inrush current at 25 °C maximum     45 A       duration of inrush current at 25 °C maximum     3:3 A*s       Ixe protection type     T 10 A/250 V (not accessible)       (tuse protection type in the feder     Recommended miniature circuit breaker: from 10 A characteristic C       output voltage at DC rated value     24 V       output voltage     24 V       output voltage     24 V       output voltage     2%       • at output voltage     2%       • on slow fluctuation of input voltage     3%       relative control precision of the output voltage     3%       • on slow fluctuation of input voltage     1%       • on slow fluctuation of input voltage     3%       •	minimum rated value	100 V		
• full-scale value     284 V       supply voltage at DC     100 240 V       input voltage at DC     88 370 V       wide range input     Yes       buffering time for rated value of the output current in the event of power failure minimum     20 ms       portering condition of the mains buffering     at Vin = 93/187 V       line frequency     50/60 Hz       ine frequency     47 63 Hz       input current     - at rated input voltage 120 V       • at rated input voltage 230 V     2.35 A       current limitation of inrush current limiting at 25 °C     -       • typical     15 ms       12t value maximum     3.3 A* S       fuse protection type     T 10 A/250 V (not accessible)       fuse protection type in the feeder     Recommended miniature circuit breaker. from 10 A characteristic C       output voltage at DC rated value     24 V       output voltage at DC rated value     24 V       output voltage ad justable     Yes,	maximum rated value	240 V		
supply voltage at DC       100 240 V         input voltage at DC       88 370 V         wide range input       Yes         buffering time for rated value of the output current in the event of power failure minimum       20 ms         operating condition of the mains buffering       at Vin = 93/187 V         line frequency       50/60 Hz         input current       6.55 A         • at rated input voltage 120 V       5.55 A         • at rated input voltage 230 V       2.35 A         current limitation of invish current at 25 °C maximum       45 A         duration of invish current limiting at 25 °C       •         • typical       15 ms         Izt value maximum       3.3 A*s         fuse protection type in the feeder       Recommended miniature circuit breaker: from 10 A characteristic C         output voltage at DC rated value       24 V         output voltage at DC rated value       24 V         output voltage adjustable       Yes; via potentiometer         adjustable output voltage       24 V         output voltage adjustable       Yes; via potentiometer         adjustable output voltage       0.1 %         • on slow fluctuation of ohm loading       1 %         relative control precision of the output voltage       0.1 % </td <td>• initial value</td> <td colspan="2">85 V</td>	• initial value	85 V		
Input voltage at DC       88 370 V         wide range input       Yes         buffering time for rated value of the output current in the event of power failure minimum       20 ms         operating condition of the mains buffering       at Vin = 93/187 V         line frequency       50/60 Hz         input voltage 20 V       5.55 A         • at rated input voltage 120 V       5.55 A         • at rated input voltage 230 V       2.35 A         current limitation of inrush current at 25 °C maximum       45 A         duration of inrush current limiting at 25 °C       •         • typical       15 ms         121 value maximum       3.3 A*s         fuse protection type       T 10 A/250 V (not accessible)         fuse protection type in the feeder       Recommended miniature circuit breaker: from 10 A characteristic C         output       voltage curve at output       Controlled, isolated DC voltage         output voltage at DC rated value       24 V         output voltage adjustable       28 26.4 V         e at output 1 at DC rated value       24 V         output voltage adjustable       28 26.4 V         relative control precision of the outpat voltage       3 %         relative control precision of the outpat voltage       1 %         e on slow	• full-scale value	264 V		
wide range input     Yes       buffering time for rated value of the output current in the event of power failure minimum     20 ms       operating condition of the mains buffering     at Vin = 93/187 V       line frequency     50/60 Hz       ine frequency     47 63 Hz       input current     -       • at rated input voltage 120 V     5.55 A       • at rated input voltage 230 V     2.35 A       current limitation of inrush current at 25 °C maximum     45 A       duration of inrush current at 25 °C maximum     3.3 A*s       12t value maximum     3.3 A*s       fuse protection type     T 10 A/250 V (not accessible)       fuse protection type     T 10 A/250 V (not accessible)       output voltage at output     Controlled, isolated DC voltage       output voltage at output     Controlled, isolated DC voltage       output voltage at output     24 V       output voltage at output voltage     24 V       output voltage adjustable     Yes; via potentiometer       adjustable output voltage     3 %       relative control precision of the output voltage     0.1 %       output voltage adjustable     Yes; via potentiometer       adjustable output voltage     0.1 %       • on slow fluctuation of input voltage     0.1 %       • on slow fluctuation of input voltage     150 mV	supply voltage at DC	100 240 V		
buffering time for rated value of the output current in the event of power failure minimum       20 ms         operating condition of the mains buffering       at Vin = 93/187 V         line frequency       50/60 Hz         line frequency       47 63 Hz         input current       • at rated input voltage 120 V         • at rated input voltage 230 V       2.35 A         current limitation of inrush current at 25 °C maximum       45 A         duration of inrush current at 25 °C maximum       3.3 A² s         [12 value maximum       3.3 A² s         [12 value maximum       3.3 A² s         voltage curve at output       Controlled, isolated DC voltage         output voltage at DC rated value       24 V         output voltage adjustable       Yes; via potentiometer         a di output 1 at DC rated value       24 V         output voltage adjustable       Yes; via potentiometer         adjustable output voltage       2.8 26.4 V         relative control precision of the outgate       3 %         relative control precision of the outgate       0.1 %         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of inp	input voltage at DC	88 370 V		
power failure minimum         at Vin = 93/187 V           line frequency         50/60 Hz           line frequency         47 63 Hz           input current         - at rated input voltage 120 V           - at rated input voltage 230 V         2.35 A           current limitation of inrush current at 25 °C maximum         45 A           duration of inrush current limiting at 25 °C         -           • typical         15 ms           l21 value maximum         3.3 A <sup>2</sup> s           fuse protection type         T 10 A/250 V (not accessible)           fuse protection type in the feeder         Recommended miniature circuit breaker: from 10 A characteristic C           output voltage at DC rated value         24 V           output voltage at DC rated value         24 V           output voltage adjustable         Yes; via potentiometer           adjustable output voltage         28 26.4 V           relative correll protection of the output voltage         3%           output voltage adjustable         Yes; via potentiometer           adjustable output voltage         3%           output voltage adjustable         1%           erelative correll protection of the output voltage         0.1 %           output voltage         0.1 %           erelative corrot precision of	wide range input	Yes		
line frequency       50/60 Hz         line frequency       47 63 Hz         input current       -         • at rated input voltage 120 V       5.55 A         • at rated input voltage 230 V       2.35 A         current limitation of inrush current at 25 °C maximum       45 A         duration of inrush current limiting at 25 °C       -         • typical       15 ms         12t value maximum       3.3 A*s         fuse protection type       T 10 A/250 V (not accessible)         fuse protection type in the feeder       Recommended miniature circuit breaker: from 10 A characteristic C         output       output voltage at DC rated value         output voltage at DC rated value       24 V         output voltage adjustable       Yes; via potentiometer         adjustable output voltage       22.8 26.4 V         output voltage adjustable       Yes; via potentiometer         adjustable output voltage       0.1 %         relative control precision of the voltage       0.1 %         e on slow fluctuation of input voltage       0.1 %         e on slow fluctuation of ohm loading       1 %         relative control precision of the voltage       50 mV         voltage peak       50 mV		20 ms		
line frequency       47 63 Hz         input current       5.55 A         • at rated input voltage 120 V       5.55 A         • at rated input voltage 230 V       2.35 A         current limitation of inrush current at 25 °C maximum       45 A         duration of inrush current limiting at 25 °C       15 ms         izt value maximum       3.3 A*s         fuse protection type       T 10 A/250 V (not accessible)         fuse protection type in the feeder       Recommended miniature circuit breaker: from 10 A characteristic C         output voltage at DC rated value       24 V         output voltage at DC rated value       24 V         output voltage adjustable       Yes; via potentiometer         adjustable output voltage       22.8 26.4 V         relative coverall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         • on slow fluctuation of input voltage       1%         residual ripple       150 mV         • typical       50 mV	operating condition of the mains buffering	at Vin = 93/187 V		
input current <ul> <li>at rated input voltage 120 V</li> <li>5.55 Å</li> <li>at rated input voltage 230 V</li> <li>2.35 Å</li> </ul> current limitation of inrush current at 25 °C maximum         45 Å           duration of inrush current at 25 °C maximum         45 Å           duration of inrush current at 25 °C <ul> <li>typical</li> <li>15 ms</li> </ul> 12t value maximum         3.3 Å*s           fuse protection type         T 10 A/250 V (not accessible)           fuse protection type in the feeder         Recommended miniature circuit breaker: from 10 A characteristic C           output         voltage at DC rated value         24 V           output voltage at DC rated value         24 V           output voltage         24 V         output voltage           output voltage adjustable         Yes; via potentiometer <ul> <li>adjustable output voltage</li> <li>adjustable output voltage</li> <li>as %</li> <li>relative control precision of the output voltage</li> <li>on slow fluctuation of input voltage</li> <li>on slow fluctuation of input voltage</li> <li>on slow fluctuation of onb loading</li> <li>maximum</li> <li>to mV</li> <li>voltage peak</li> </ul>	line frequency	50/60 Hz		
• at rated input voltage 120 V5.55 Å• at rated input voltage 230 V2.35 Åcurrent limitation of inrush current at 25 °C maximum45 Åduration of inrush current at 25 °C-• typical15 ms12t value maximum3.3 Å*.sfuse protection typeT 10 Å/250 V (not accessible)fuse protection type in the feederRecommended miniature circuit breaker: from 10 Å characteristic Coutput-voltage at DC rated value24 Voutput voltage at DC rated value24 Voutput voltage adjustableYes; via potentiometeradjustable output voltage3 %relative control precision of the output voltage3 %on slow fluctuation of input voltage0.1 %• on slow fluctuation of ninput voltage1 %residual ripple-• maximum150 mV• typical50 mV	line frequency	47 63 Hz		
• at rated input voltage 230 V       2.35 A         current limitation of inrush current at 25 °C maximum       45 A         duration of inrush current limiting at 25 °C       15 ms         • typical       15 ms         12t value maximum       3.3 A²-s         fuse protection type       T 10 A/250 V (not accessible)         fuse protection type in the feeder       Recommended miniature circuit breaker; from 10 A characteristic C         output       voltage curve at output       Controlled, isolated DC voltage         output voltage       24 V         output voltage       24 V         output voltage       24 V         output voltage       24 V         output voltage adjustable       Yes; via potentiometer         adjustable output voltage       24 V         output voltage adjustable       Yes; via potentiometer         adjustable output voltage       3 %         relative cortrol precision of the output voltage       0.1 %         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of ohm loading       1%         residual ripple       150 mV         • typical       50 mV         voltage peak       50 mV	input current			
current limitation of inrush current at 25 °C maximum       45 Å         duration of inrush current limiting at 25 °C       15 ms         itypical       15 ms         lizt value maximum       3.3 Ų.s         fuse protection type       T 10 Å/250 V (not accessible)         fuse protection type in the feeder       Recommended miniature circuit breaker: from 10 Å characteristic C         output       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       28 26.4 V         relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         ound fuctuation of input voltage       1 %         residual ripple       150 mV         or maximum       150 mV         voltage peak       50 mV	<ul> <li>at rated input voltage 120 V</li> </ul>	5.55 A		
duration of inrush current limiting at 25 °C       15 ms         i typical       15 ms         l2t value maximum       3.3 A².s         fuse protection type       T 10 A/250 V (not accessible)         fuse protection type in the feeder       Recommended miniature circuit breaker: from 10 A characteristic C         output       voltage curve at output       Controlled, isolated DC voltage         output voltage at DC rated value       24 V         output voltage dijustable       Yes; via potentiometer         adjustable output voltage       22.8 26.4 V         relative overall tolerance of the voltage       3 %         relative control precision of uput voltage       0.1 %         outs of fuctuation of input voltage       1 %         residual ripple       150 mV         otypical       50 mV	at rated input voltage 230 V	2.35 A		
• typical15 ms12t value maximum3.3 A².sfuse protection typeT 10 A/250 V (not accessible)fuse protection type in the feederRecommended miniature circuit breaker: from 10 A characteristic Coutputvoltage curve at outputvoltage at DC rated value24 Voutput voltage24 Voutput voltage adjustable24 Voutput voltage adjustableYes; via potentiometeradjustable output voltage22.8 26.4 Vrelative overall tolerance of the voltage3 %relative control precision of the output voltage0.1 %outs wfluctuation of input voltage1.%residual ripple150 mV• maximum150 mV• typical50 mV	current limitation of inrush current at 25 °C maximum	45 A		
I2t value maximum       3.3 A²-s         fuse protection type       T 10 A/250 V (not accessible)         fuse protection type in the feeder       Recommended miniature circuit breaker: from 10 A characteristic C         output       voltage curve at output       Controlled, isolated DC voltage         output voltage at DC rated value       24 V         output voltage       24 V         output voltage adjustable       Yes; via potentiometer         adjustable output voltage       22.8 26.4 V         relative control precision of the output voltage       3 %         relative control precision of the output voltage       0.1 %         • on slow fluctuation of ohm loading       1 %         residual ripple       150 mV         • typical       50 mV         voltage peak       50 mV	duration of inrush current limiting at 25 °C			
fuse protection type       T 10 A/250 V (not accessible)         fuse protection type in the feeder       Recommended miniature circuit breaker: from 10 A characteristic C         output       Voltage curve at output       Controlled, isolated DC voltage         output voltage at DC rated value       24 V         output voltage       24 V         output voltage adjustable       24 V         output voltage adjustable       24 V         output voltage adjustable       28 26.4 V         relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         • on slow fluctuation of ohm loading       1 %         residual ripple       150 mV         • typical       50 mV	• typical	15 ms		
fuse protection type in the feeder       Recommended miniature circuit breaker: from 10 A characteristic C         output       Voltage curve at output       Controlled, isolated DC voltage         output voltage at DC rated value       24 V         output voltage       24 V         output voltage adjustable       22.8 26.4 V         relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         on slow fluctuation of input voltage       1 %         residual ripple       150 mV         • maximum       50 mV         • typical       50 mV	I2t value maximum	3.3 A <sup>2</sup> ·s		
output       Controlled, isolated DC voltage         output voltage at DC rated value       24 V         output voltage       24 V         output voltage adjustable       22.8 26.4 V         relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         • on slow fluctuation of input voltage       1%         residual ripple       150 mV         • typical       50 mV	fuse protection type	T 10 A/250 V (not accessible)		
voltage curve at output       Controlled, isolated DC voltage         output voltage at DC rated value       24 V         output voltage       24 V         output voltage adjustable       22.8 26.4 V         relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         • on slow fluctuation of input voltage       1 %         residual ripple       150 mV         • typical       50 mV	fuse protection type in the feeder	Recommended miniature circuit breaker: from 10 A characteristic C		
output voltage at DC rated value24 Voutput voltage24 V• at output 1 at DC rated value24 Voutput voltage adjustableYes; via potentiometeradjustable output voltage22.8 26.4 Vrelative overall tolerance of the voltage3 %relative control precision of the output voltage0.1 %• on slow fluctuation of input voltage1 %residual ripple150 mV• typical50 mVvoltage peak4	output			
output voltage       24 V         output voltage adjustable       24 V         output voltage adjustable       Yes; via potentiometer         adjustable output voltage       22.8 26.4 V         relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of ohm loading       1 %         residual ripple       150 mV         • typical       50 mV	voltage curve at output	Controlled, isolated DC voltage		
• at output 1 at DC rated value24 Voutput voltage adjustableYes; via potentiometeradjustable output voltage22.8 26.4 Vrelative overall tolerance of the voltage3 %relative control precision of the output voltage0.1 %• on slow fluctuation of input voltage0.1 %• on slow fluctuation of ohm loading1 %residual ripple150 mV• typical50 mV	output voltage at DC rated value	24 V		
output voltage adjustableYes; via potentiometeradjustable output voltage22.8 26.4 Vrelative overall tolerance of the voltage3 %relative control precision of the output voltage0.1 %• on slow fluctuation of input voltage1 %residual ripple150 mV• typical50 mV	output voltage			
adjustable output voltage       22.8 26.4 V         relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of ohm loading       1 %         residual ripple       150 mV         • typical       50 mV	• at output 1 at DC rated value	24 V		
relative overall tolerance of the voltage       3 %         relative control precision of the output voltage       0.1 %         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of ohm loading       1 %         residual ripple       150 mV         • typical       50 mV         voltage peak	output voltage adjustable	Yes; via potentiometer		
relative control precision of the output voltage       0.1 %         • on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of ohm loading       1 %         residual ripple       150 mV         • typical       50 mV         voltage peak       Image: State S	adjustable output voltage	22.8 26.4 V		
• on slow fluctuation of input voltage       0.1 %         • on slow fluctuation of ohm loading       1 %         residual ripple          • maximum       150 mV         • typical       50 mV         voltage peak	relative overall tolerance of the voltage	3 %		
• on slow fluctuation of ohm loading     1 %       residual ripple     150 mV       • maximum     150 mV       • typical     50 mV       voltage peak	relative control precision of the output voltage			
residual ripple  • maximum typical voltage peak	<ul> <li>on slow fluctuation of input voltage</li> </ul>	0.1 %		
• maximum 150 mV     • typical 50 mV voltage peak	on slow fluctuation of ohm loading	1 %		
• typical 50 mV voltage peak	residual ripple			
voltage peak	• maximum	150 mV		
	• typical	50 mV		
• maximum 240 mV	voltage peak			
	• maximum	240 mV		

e tvoical	100 mV
typical	Green LED for 24 V OK
display version for normal operation	
behavior of the output voltage when switching on	No overshoot of Vout (soft start)
response delay maximum	1.5 s
voltage increase time of the output voltage	20 ma
• typical	20 ms
output current	20 A
rated value	20 A
rated range	0 20 A; +45 +70 °C: Derating 2.5%/K
supplied active power typical	480 W
bridging of equipment	Yes
number of parallel-switched equipment resources for increasing	2
the power	
efficiency	02.1/
efficiency in percent	92 %
power loss [W]	15.11
<ul> <li>at rated output voltage for rated value of the output current typical</li> </ul>	45 W
closed-loop control	
relative control precision of the output voltage with rapid	0.5 %
fluctuation of the input voltage by +/- 15% typical	
relative control precision of the output voltage at load step of	3 %
resistive load 10/90/10 % typical	
setting time	
<ul> <li>load step 10 to 90% typical</li> </ul>	0.7 ms
<ul> <li>load step 90 to 10% typical</li> </ul>	6 ms
protection and monitoring	
design of the overvoltage protection	< 33 V
property of the output short-circuit proof	Yes
design of short-circuit protection	Constant current characteristic
• typical	24 A
enduring short circuit current RMS value	
-	
• typical	24 A
• typical safety	24 A
	24 A Yes
safety	
safety galvanic isolation between input and output	Yes
safety galvanic isolation between input and output galvanic isolation	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
safety galvanic isolation between input and output galvanic isolation operating resource protection class	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I
safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA
safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA
safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA
safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA
safety galvanic isolation between input and output galvanic isolation operating resource protection class leakage current • maximum • typical protection class IP EMC standard	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20
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	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B
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	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B EN 61000-3-2
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	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B EN 61000-3-2
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	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B EN 61000-3-2
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	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2
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	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes
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         • UL approval	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
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 • UL approval • EAC approval • NEC Class 2	Yes         Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178         Class I         3.5 mA         0.8 mA         IP20         EN 55022 Class B         EN 61000-3-2         EN 61000-6-2         Yes         Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
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 • UL approval • EAC approval • EAC approval	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes
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 • UL approval • EAC approval • NEC Class 2	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes
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         • UL approval         • CSA approval         • EAC approval         • NEC Class 2         type of certification	Yes         Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178         Class I         3.5 mA         0.8 mA         IP20         EN 55022 Class B         EN 61000-3-2         EN 61000-6-2         Yes         Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         Yes; No
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         • UL approval         • CSA approval         • EAC approval         • NEC Class 2         type of certification         • BIS	Yes         Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178         Class I         3.5 mA         0.8 mA         IP20         EN 55022 Class B         EN 61000-3-2         EN 61000-6-2         Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         Yes, No         Yes; R-41184349
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         • UL approval         • CSA approval         • NEC Class 2         type of certification         • BIS         • CB-certificate	Yes         Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178         Class I         3.5 mA         0.8 mA         IP20         EN 55022 Class B         EN 61000-3-2         EN 61000-6-2         Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         Yes, No         Yes; R-41184349
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         • UL approval         • EAC approval         • EAC approval         • NEC Class 2         type of certification         • BIS         • CB-certificate         standards, specifications, approvals hazardous environments	Yes         Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178         Class I         3.5 mA         0.8 mA         IP20         EN 55022 Class B         EN 61000-3-2         EN 61000-6-2         Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         Yes, No         Yes; R-41184349
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         • UL approval         • EAC approval         • NEC Class 2         type of certification         • BIS         • CB-certificate         standards, specifications, approvals hazardous environments	Yes         Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178         Class I         3.5 mA         0.8 mA         IP20         EN 55022 Class B         EN 61000-3-2         EN 61000-6-2         Yes         Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259         Yes; No         Yes; R-41184349         Yes
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 • UL approval • CSA approval • EAC approval • NEC Class 2 type of certification • BIS • CB-certificate standards, specifications, approvals hazardous environments certificate of suitability • IECEx	Yes Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I 3.5 mA 0.8 mA IP20 EN 55022 Class B EN 61000-3-2 EN 61000-6-2 Yes Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes; cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259 Yes No Yes; R-41184349 Yes

<ul> <li>cCSAus, Class 1, Division 2</li> </ul>	No		
FM registration	No		
standards, specifications, approvals marine classification			
shipbuilding approval	No		
Marine classification association			
American Bureau of Shipping Europe Ltd. (ABS)	No		
French marine classification society (BV)	No		
Det Norske Veritas (DNV)			
Lloyds Register of Shipping (LRS)	No		
ambient conditions			
ambient temperature			
during operation	-25 +70; with natural convection		
during operation     ort	-25 +70, with hatdrai convection -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	screw terminal		
at input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm <sup>2</sup> single-core/finely stranded		
at output	+, -: 2 screw terminals each for 0.5 2.5 mm <sup>2</sup>		
for auxiliary contacts			
mechanical data			
width × height × depth of the enclosure	110 × 125 × 125 mm		
installation width × mounting height	110 mm × 225 mm		
required spacing			
• top	50 mm		
• bottom	50 mm		
• left	0 mm		
• right	0 mm		
fastening method	Snaps onto DIN rail EN 60715 35x7.5/15		
standard rail mounting	Yes		
S7 rail mounting	No		
wall mounting	No		
housing can be lined up	Yes		
net weight	1.8 kg		
further information internet links	1.0 Kg		
internet link			
to website: Industry Mall	https://mall.industry.siemens.com		
<ul> <li>to website. Industry Main</li> <li>to web page: selection aid TIA Selection Tool</li> </ul>	https://www.siemens.com/tstcloud		
<ul> <li>to web page: selection and the selection root</li> <li>to web page: power supplies</li> </ul>	https://siemens.com/sitop		
<ul> <li>to web page. power supplies</li> <li>to website: CAx-Download-Manager</li> </ul>	https://siemens.com/cax		
to website: CAX-Download-Manager     to website: Industry Online Support	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/cett. (V4.7)		

Classifications				
		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-tion

Declaration of Con-formity

CE EG-Konf.

last modified:

11/25/2024 🖸