SIEMENS

Product data sheet 6EP1334-1LB00



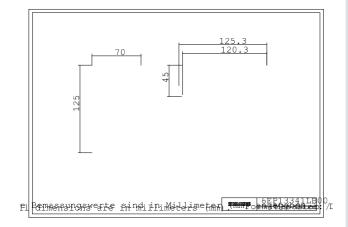
SITOP PSU100L 24 V/10 A STABILIZED POWER SUPPLY INPUT: 120/230 V AC OUTPUT: 24 V/10 A DC

Technical specifications		
Product	SITOP PSU100L	
Power supply, type	24 V/10 A	
Input		
Input	1-phase AC	
Supply voltage / 1 / at AC / nominal value	120 V	
Supply voltage / 2 / at AC / nominal value	230 V	
Voltage range		
• Note	Set by means of selector switch on the device	
Input voltage / 1 / at AC	93 132 V	
Input voltage / 2 / at AC	187 264 V	
Wide-range input	No	
Overvoltage resistance	2.3 x Vin rated, 1.3 ms	
Mains buffering at lout rated, min.	20 ms	
Mains buffering	at Vin = 93/187 V	
Rated line frequency	50 / 60 Hz	
Rated line range	47 63 Hz	
Input current / at nominal level of the input voltage 120 V	4.1 A	
Input current / at nominal level of the input voltage 230 V	2.4 A	
Switch-on current limiting (+25 °C), max.	65 A	
Duration of current limiting / at 25 °C / typical	3 ms	

Bull-th incoming fuse T 6.3 A/250 V (not accessible) Protection in the mains power input (EC 898) Recommended ministure circuit breaker: from 10 A, characteristic C Output Output Controlled, isolated DC voltage Rated voltage Vout DC 24 V Total tolerance, static ± 3 % State coad balancing, approx. 0.5 % Residual ripple peak-peak, max. 150 mV Residual ripple peak-peak, flyp. 50 mV Spikes peak-peak, max. (bandwidth: 20 MHz) 40 mV Spikes peak-peak, max. (bandwidth: 20 MHz) 150 mV Adjustment range 22.8 26.4 V Product feature / output voltage adjustable Yes Output voltage setting 45 mm Status display Green LED for 24 V OK Orbidate feature / output voltage adjustable 70 ms Status display 1.5 s Output voltage setting 4 via potentiometer Status display 1.0 m Orbidage fise, typ. 1.70 ms Rated current value fout rated 1.0 A Aveta 1.0 A 1.0 A Value	I²t, max.	3.3 A²·s
Protection in the mains power input (IEC 898) Recommended miniature circuit breaker. from 10 A. characteristic C Output Controlled, isolated DC voltage Rated voltage Vout DC 24 V Static bank compensation, approx. 0.1 % Static load balancing, approx. 150 mV Residual ripple peak-peak, max. 150 mV Residual ripple peak-peak, typ. 50 mV Splikes peak-peak, typ. (bandwidth: 20 MHz) 450 mV Adjustment range 22.8 26.4 V Product feature / output voltage adjustable 49 mV Status dalpaly Green LED for 24 V OK Output voltage setting 45 s Status dalpaly max. 1.5 s Voltage rise, typ. 170 ms Rated current value lout rated 10 A Current range 1.0 A • Nota 10 A Current lange 1.0 W • Nota 10 A Current lange 1.0 W • Nota 10 A Current lange 2.0 W • Nota 1.0 W Parallel switchable units for enhanced performance <td>Built-in incoming fuse</td> <td>T 6.3 A/250 V (not accessible)</td>	Built-in incoming fuse	T 6.3 A/250 V (not accessible)
Output Controlled, isolated DC voltage Rated voltage Yout DC 24 Y Total tolerance, static ± 3 % Static can's compensation, approx. 0.1 % Static load balancing, approx. 0.5 % Residual ripple peak-peak, max. 150 mV Residual ripple peak-peak, typ. 50 mV Spikes peak-peak, typ. (bandwidth: 20 MHz) 240 mV Spikes peak-peak, typ. (bandwidth: 20 MHz) 400 mV Product feature / output voltage adjustable Yes Output Voltage setting 400 mV Status display Green LED for 24 V OK On/off behavior Overshoot of Vout approx. 4 % Startup delay, max. 1.5 s Voltage rise, typ. 170 ms Rated current value lout rated 10 A Current range • Note • Note 40 W Parallel switching for enhanced performance Yes Efficiency <td></td> <td>, , , , , , , , , , , , , , , , , , ,</td>		, , , , , , , , , , , , , , , , , , ,
Output Controlled, isolated DC voltage Rated voltage Vout DC 24 V Total tolerance, static ≥ 3% Static mains compensation, approx. 0.1 % Static balancing, approx. 150 mV Residual ripple peak-peak, trax. 150 mV Residual ripple peak-peak, tryp. 50 mV Spikes peak-peak, tryp. (bandwidth: 20 MHz) 40 mV Spikes peak-peak, tryp. (bandwidth: 20 MHz) 150 mV Adjustment range 22.8 26.4 V Product feature / output voltage adjustable Yes Volupti voltage setting via potentiometer Status display Green LED for 24 V OK On/off behavior Overshoot of Vout approx. 4 % Statup delay, max. 1.5 s Voltage rise, typ. 170 ms Rated current value lout rated 10 A Lourent range 0 10 A • Note 10 A up to +45 °C, 7 A up to +60 °C delivered active power / typ. 240 W Parallel switching for enhanced performance yes Numbers of parallel switchable units for enhanced performance 2 <td< td=""><td></td><td></td></td<>		
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Residual ripple peak-peak, max. 150 mV Residual ripple peak-peak, typ. 50 mV Spikes peak-peak, max. (bandwidth: 20 MHz) 240 mV Spikes peak-peak, typ. (bandwidth: 20 MHz) 150 mV Adjustment range 22.8 26.4 V Product feature / output voltage adjustable Yes Output voltage setting via potentiometer Status display Green LED for 24 V OK On/off behavior Overshoot of Vout approx. 4 % Startup delay, max. 1.5 s Voltager rise, typ. 170 ms Rated current value lout rated 10 A Current range 0 10 A • Note 10 A up to +45 °C, 7 A up to +60 °C delivered active power / typ. 240 W Parallel switching for enhanced performance 2 Efficiency Efficiency Efficiency 89 % Power loss at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, four rated ±15 %, max. 0,3 % Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. 2 % Load step setting time 10 to 90%, typ. 0.5 ms	Static mains compensation, approx.	0.1 %
Residual ripple peak-peak, typ. 50 mV Spikes peak-peak, max. (bandwidth: 20 MHz) 240 mV Adjustment range 22.8 26.4 V Product feature / output voltage adjustable Yes Output voltage setting via potentiometer Status display Green LED for 24 V OK On/off behavior Overshoot of Vout approx. 4 % Startup delay, max. 1.5 s Voltager rise, typ. 170 ms Rated current value lout rated 10 A Current range 0 10 A • Note 10 A up to +45 °C, 7 A up to +60 °C delivered active power / typ. 240 W Parallel switching for enhanced performance yes Numbers of parallel switchable units for enhanced performance 2 Efficiency 2 Efficiency Efficiency Efficiency 2 Dynamic load smoothing (four tated, approx.) 89 % Power loss at Vout rated, lout rated, approx. 89 % Closed-top control 2 Dynamic load smoothing (four taled ±15 %), max. 0.3 % Dynamic load smoothing (four taled	Static load balancing, approx.	0.5 %
Spikes peak-peak, max. (bandwidth: 20 MHz) 150 mV Adjustment range 22.8 26.4 V Product feature / output voltage adjustable Yes Output voltage setting via potentiometer Status display Green LED for 24 V OK On/off behavior Overshoot of Vout approx. 4 % Startup delay, max. 1.5 s Voltage rise, typ. 170 ms Rated current value lout rated 10 A 10	Residual ripple peak-peak, max.	150 mV
Spikes peak-peak, typ. (handwidth: 20 MHz) 150 mV Adjustment range 22.8 26.4 V Product feature / output voltage adjustable Yes Output voltage setting via potentiometer Status display Green LED for 24 V OK On/off behavior Overshoot of Vout approx. 4 % Startup delay, max. 1.5 s Voltage rise, typ. 170 ms Rated current value lout rated 10 A Current range 0 10 A - Note 100 A up to +45 °C, 7 A up to +60 °C delivered active power / typ. 240 W Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance 2 Efficiency at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, lout rated, approx. 34 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. 0.3 % Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. 2 % Load step setting time 90 to 10%, typ. 0.7 ms Protection and monitoring Output overvoltage protection 33 V Current limitation, typ. 10.5 A Chracteristic feature of the output / short-circuit protected Yes	Residual ripple peak-peak, typ.	50 mV
Adjustment range 22.8 26.4 V Product feature / output voltage adjustable Yes Output voltage setting via potentiometer Status display Green LED for 24 V OK On/off behavior Overshoot of Vout approx. 4 % Startup delay, max. 1.5 s Voltage rise, typ. 170 ms Rated current value lout rated 10 A Current range 0 10 A Current range 10 A up to +45 °C, 7 A up to +60 °C delivered active power / typ. 240 W Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance 2 Efficiency at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, lout rated, approx. 34 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. 0.3 % Dynamic load smoothing (lout: 10/80/10 %), Uout ± typ. 2.% Load step setting time 90 to 10%, typ. 0.5 ms Load step setting time 90 to 10%, typ. 0.7 ms Protection and monitoring Output overvoltage protection <33 V Current limitation, typ. 10.5 A Characteristic feature of the output / short-circuit protected Yes	Spikes peak-peak, max. (bandwidth: 20 MHz)	240 mV
Product feature / output voltage adjustable Output voltage setting Status display Green LED for 24 V OK On/off behavior Overshoot of Vout approx. 4 % Startup delay, max. 1.5 s Voltage rise, typ. Rated current value lout rated 10 A Current range • Note • Note 10 A up to +45 °C, 7 A up to +60 °C delivered active power / typ. 240 W Parallel switching for enhanced performance Ves Numbers of parallel switchable units for enhanced performance 2 Efficiency at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, lout rated ±15 %), max. 0,3 % Dynamic mains compensation (Vin rated ±15 %), max. 0,3 % Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. 10,4 sites postting time 10 to 90%, typ. 10,5 ms 10,5 ms 10,5 A 10	Spikes peak-peak, typ. (bandwidth: 20 MHz)	150 mV
Output voltage setting via potentiometer Status display Green LED for 24 V OK On/off behavior Overshoot of Vout approx. 4 % Startup delay, max. 1.5 s Voltage rise, typ. 170 ms Rated current value lout rated 10 A Current range 0 10 A • Note 10 A up to +45 °C, 7 A up to +60 °C delivered active power / typ. 240 W Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance 2 Efficiency 89 % Power loss at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, lout rated, approx. 89 % Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. 0.3 % Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. 2 % Load step setting time 10 to 90%, typ. 0.5 ms Load step setting time 90 to 10%, typ. 0.7 ms Protection and monitoring Output overvoltage protection < 33 V	Adjustment range	22.8 26.4 V
Status display On/off behavior Overshoot of Vout approx. 4 % Startup delay, max. 1.5 s Voltage rise, typ. 170 ms Rated current value lout rated 10 A Current range • Note 10 A up to +45 °C, 7 A up to +60 °C delivered active power / typ. 240 W Parallel switching for enhanced performance Ves Numbers of parallel switchable units for enhanced performance 2 Efficiency Efficiency at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, lout rated approx. 89 % Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. 0.3 % Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. 2 % Load step setting time 10 to 90%, typ. 0.5 ms Protection and monitoring Output overvoltage protection < 33 V Current limitation, typ. 10.5 A Characteristic feature of the output / short-circuit protected Yes	Product feature / output voltage adjustable	Yes
On/off behavior Startup delay, max. 1.5 s Voltage rise, typ. Rated current value lout rated 10 A Current range • Note delivered active power / typ. Parallel switching for enhanced performance Wes Numbers of parallel switchable units for enhanced performance Efficiency at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, lout rated, approx. 89 % Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. Load step setting time 10 to 90%, typ. Protection and monitoring Output overvoltage protection 4 33 V Current limitation, typ. Characteristic feature of the output / short-circuit protected Versen 170 ms 10 A 10	Output voltage setting	via potentiometer
Startup delay, max. Voltage rise, typ. Rated current value lout rated 10 A Current range • Note delivered active power / typ. Parallel switching for enhanced performance Fifciency Efficiency Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Pynamic mains compensation (Vin rated ±15 %), max. Dynamic bad smoothing (lout: 10/90/10 %), Uout ± typ. Load step setting time 10 to 90%, typ. Protection and monitoring Output overvoltage protection Current limitation, typ. Characteristic feature of the output / short-circuit protected 10 A	Status display	Green LED for 24 V OK
Voltage rise, typ. Rated current value lout rated 10 A Current range • Note 10 A up to +45 °C, 7 A up to +60 °C delivered active power / typ. Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance 2 Efficiency Efficiency at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, lout rated, approx. 89 % Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. Load step setting time 10 to 90%, typ. Load step setting time 90 to 10%, typ. O.7 ms Protection and monitoring Output overvoltage protection Closed-loop control Upun to vervoltage protection 	On/off behavior	Overshoot of Vout approx. 4 %
Rated current value lout rated 10 A Current range Note 10 A up to +45 °C, 7 A up to +60 °C delivered active power / typ. Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance Efficiency Efficiency Efficiency at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, lout rated, approx. 89 % Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. Load step setting time 10 to 90%, typ. Dynamic betting time 90 to 10%, typ. Protection and monitoring Output overvoltage protection 4 33 V Characteristic feature of the output / short-circuit protected Yes	Startup delay, max.	1.5 s
Current range • Note 10 A up to +45 °C, 7 A up to +60 °C delivered active power / typ. 240 W Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance Efficiency Efficiency at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, lout rated, approx. 4 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. Load step setting time 10 to 90%, typ. Doubut overvoltage protection Output overvoltage protection Current limitation, typ. Characteristic feature of the output / short-circuit protected Output protection 10 A up to +45 °C, 7 A up to +60 °C 240 W 240 W 250 S 260 S 270 S 280 S	Voltage rise, typ.	170 ms
Note 10 A up to +45 °C, 7 A up to +60 °C delivered active power / typ. 240 W Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance 2 Efficiency Efficiency Efficiency at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, lout rated, approx. 34 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. 0.3 % Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. 2 % Load step setting time 10 to 90%, typ. 0.5 ms Load step setting time 90 to 10%, typ. Protection and monitoring Output overvoltage protection < 33 V Current limitation, typ. Characteristic feature of the output / short-circuit protected Yes	Rated current value lout rated	10 A
delivered active power / typ. Parallel switching for enhanced performance Yes Numbers of parallel switchable units for enhanced performance Efficiency Efficiency Efficiency at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, lout rated, approx. 34 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. 0.3 % Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. 2 % Load step setting time 10 to 90%, typ. 0.5 ms Load step setting time 90 to 10%, typ. Protection and monitoring Output overvoltage protection < 33 V Current limitation, typ. Characteristic feature of the output / short-circuit protected Yes	Current range	0 10 A
Parallel switching for enhanced performance Numbers of parallel switchable units for enhanced performance Efficiency Efficiency at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, lout rated, approx. 34 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. 2 % Load step setting time 10 to 90%, typ. Load step setting time 90 to 10%, typ. Protection and monitoring Output overvoltage protection < 33 V Current limitation, typ. Characteristic feature of the output / short-circuit protected Yes	• Note	10 A up to +45 °C, 7 A up to +60 °C
Numbers of parallel switchable units for enhanced performance 2 Efficiency Efficiency at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, lout rated, approx. 34 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. 0.3 % Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. 2 % Load step setting time 10 to 90%, typ. 0.5 ms Load step setting time 90 to 10%, typ. 0.7 ms Protection and monitoring Output overvoltage protection <33 V Current limitation, typ. 10.5 A Characteristic feature of the output / short-circuit protected Yes	delivered active power / typ.	240 W
Efficiency at Vout rated, lout rated, approx. 89 % Power loss at Vout rated, lout rated, approx. 24 W Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. 2 % Load step setting time 10 to 90%, typ. 0.5 ms Load step setting time 90 to 10%, typ. 0.7 ms Protection and monitoring Output overvoltage protection < 33 V Current limitation, typ. 10.5 A Characteristic feature of the output / short-circuit protected Yes	Parallel switching for enhanced performance	Yes
Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. 2 % Load step setting time 10 to 90%, typ. Load step setting time 90 to 10%, typ. Protection and monitoring Output overvoltage protection < 33 V Current limitation, typ. Characteristic feature of the output / short-circuit protected Yes	Numbers of parallel switchable units for enhanced performance	2
Power loss at Vout rated, lout rated, approx. Closed-loop control Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. Load step setting time 10 to 90%, typ. Load step setting time 90 to 10%, typ. Protection and monitoring Output overvoltage protection 	Efficiency	
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Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. 2 % Load step setting time 10 to 90%, typ. 0.5 ms Load step setting time 90 to 10%, typ. 0.7 ms Protection and monitoring Output overvoltage protection < 33 V Current limitation, typ. 10.5 A Characteristic feature of the output / short-circuit protected Yes	Power loss at Vout rated, lout rated, approx.	34 W
Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ. Load step setting time 10 to 90%, typ. Load step setting time 90 to 10%, typ. Protection and monitoring Output overvoltage protection Current limitation, typ. Characteristic feature of the output / short-circuit protected 2 % 0.5 ms 0.7 ms 4 33 V Current limitation, typ. 10.5 A Characteristic feature of the output / short-circuit protected Yes	Closed-loop control	
Load step setting time 10 to 90%, typ. Load step setting time 90 to 10%, typ. Protection and monitoring Output overvoltage protection Current limitation, typ. Characteristic feature of the output / short-circuit protected O.5 ms 0.7 ms V 33 V Current limitation, typ. 10.5 A Characteristic feature of the output / short-circuit protected Yes	Dynamic mains compensation (Vin rated ±15 %), max.	0.3 %
Load step setting time 90 to 10%, typ. Protection and monitoring Output overvoltage protection < 33 V Current limitation, typ. 10.5 A Characteristic feature of the output / short-circuit protected Yes	Dynamic load smoothing (lout: 10/90/10 %), Uout ± typ.	2 %
Protection and monitoring Output overvoltage protection < 33 V Current limitation, typ. 10.5 A Characteristic feature of the output / short-circuit protected Yes	Load step setting time 10 to 90%, typ.	0.5 ms
Output overvoltage protection < 33 V Current limitation, typ. 10.5 A Characteristic feature of the output / short-circuit protected Yes	Load step setting time 90 to 10%, typ.	0.7 ms
Current limitation, typ. 10.5 A Characteristic feature of the output / short-circuit protected Yes	Protection and monitoring	
Characteristic feature of the output / short-circuit protected Yes	Output overvoltage protection	< 33 V
	Current limitation, typ.	10.5 A
Short-circuit protection Constant current characteristic	Characteristic feature of the output / short-circuit protected	Yes
	Short-circuit protection	Constant current characteristic

Enduring short circuit current / Effective level / typical	16 A
Overload/short-circuit indicator	-
Safety	
Primary/secondary isolation	Yes
Potential separation	Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178
Protection class	Class I
stray current / maximum	3.5 mA
stray current / typical	0.8 mA
CE mark	Yes
UL/CSA approval	Yes
UL/cUL (CSA) approval	cULus-Listed (UL 508, CSA C22.2 No. 107.1), File E197259
Explosion protection	-
FM approval	-
Marine approval	-
Degree of protection (EN 60529)	IP20
EMC	
Emitted interference	EN 55022 Class A
Supply harmonics limitation	-
Noise immunity	EN 61000-6-2
Operating data	
Ambient temperature / in operation	0 60 °C
• Note	with natural convection
Ambient temparature / on transport	-40 +85 °C
Ambient temparature / in storage	-40 +85 °C
Humidity class according to EN 60721	Climate class 3K3, no condensation
Mechanics	
Connection technology	screw-type terminals
Connections / Supply input	L, N, PE: 1 screw terminal each for 0.5 2.5 mm² single-core/finely stranded
Connections / Output	+, -: 2 screw terminals each for 0.5 2.5 mm ²
Connections / Auxiliary	-
Width / of the housing	70 mm
Height / of the housing	125 mm
Depth / of the housing	125 mm
Installation width	70 mm
Mounting height	225 mm
Weight, approx.	0.75 kg
Product feature / of the housing / housing for side-by-side mounting	Yes
Type of mounting / wall mounting	No

Type of fixing / cap rail mounting	Yes
Type of mounting / S7-300 rail mounting	No
Installation	Snaps onto DIN rail EN 60715 35x7.5/15
Other information	Specifications at rated input voltage and ambient temperature +25



°C (unless otherwise specified)

letzte Änderung:

Nov 9, 2012