6ES7307-1EA01-0AA0

## **Data sheet**



## SIMATIC PS307/1AC/24VDC/5A

SIMATIC S7-300 Regulated power supply PS307 input: 120/230 V AC, output: 24 V/5 A DC

Input	Input	
supply voltage	Input	1-phase AC
• 1 at AC rated value • 2 at AC rated value 230 V  input voltage • 1 at AC • 2 at AC • 2 at AC • 2 at AC  • 2 at AC  • 2 at AC  • 3 t AC • 2 at AC  • 2 at AC  • 3 t AC • 2 at AC  • 3 t AC  • 3 t AC • 2 at AC  • 3 t AC  • 3 t AC  • 3 t AC • 3 t AC  • 3 t AC • 4 t AC • 3 t AC • 4 t	<ul><li>Note</li></ul>	Automatic range selection
	supply voltage	
input voltage  ● 1 at AC  ● 2 at AC  170 264 V  Wide-range input  No  Overvoltage resistance  2.3 × Vin rated, 1.3 ms  Mains buffering at lout rated, min.  Rated line frequency 1  Rated line frequency 2  Rated line range  input current  ● at rated input voltage 120 V  ● at rated input voltage 230 V  Protection in the mains power input (IEC 898)  Rottlein incoming fuse  Protection in the mains power input (IEC 898)  Rated voltage Vout DC  ● output voltage at output 1 at DC rated value  Total tolerance, static ±  Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, max.  Residual ripple peak-peak, max.  Rivin = 93/187 V  85 132 V  10 0 264 V  Residual ripple peak-peak, max.  50 mV  Residual ripple peak-peak, ftp.	1 at AC rated value	120 V
• 1 at AC • 2 at AC  Wide-range input  No  Overvoltage resistance  Alians buffering at Vin = 93/187 V  Mains buffering at lout rated, min.  Rated line frequency 1  Rated line frequency 2  Rated line range input current  • at rated input voltage 120 V • at rated input voltage 230 V  • at rated input voltage 230 V  • at rated injust current limiting (+25 °C), max.  duration of inrush current limiting at 25 °C  • maximum  Pit, max.  1.2 A²-s  Built-in incoming fuse  Protection in the mains power input (IEC 898)  Recommended miniature circuit breaker: from 6 A characteristic C  Output  Output  Controlled, isolated DC voltage  Rated voltage at output 1 at DC rated value  7 tatic load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, max.  Residual ripple peak-peak, max.  Residual ripple peak-peak, max.  Rivin = 93/187 V  No  10 nV  10 mV	2 at AC rated value	230 V
● 2 at AC  Wide-range input  No Overvoltage resistance  2.3 × Vin rated, 1.3 ms  Mains buffering  at Vin = 93/187 V  Mains buffering at lout rated, min.  Rated line frequency 1  Rated line frequency 2  Rated line range  47 63 Hz  input current  • at rated input voltage 120 V  • at rated input voltage 230 V  2.3 A  duration of inrush current limiting at 25 °C  • maximum  Pt, max.  1.2 A²-s  Built-in incoming fuse  Protection in the mains power input (IEC 898)  Recommended miniature circuit breaker: from 6 A characteristic C  Output  Output  Controlled, isolated DC voltage  Rated voltage at output 1 at DC rated value  Total tolerance, static ±  3 %  Static mains compensation, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  10 mV	input voltage	
Wide-range input         No           Overvoltage resistance         2.3 × Vin rated, 1.3 ms           Mains buffering         at Vin = 93/187 V           Mains buffering at lout rated, min.         20 ms; at Vin = 93/187 V           Rated line frequency 1         50 Hz           Rated line range         47 63 Hz           input current         • at rated input voltage 120 V         2.3 A           • at rated input voltage 230 V         1.2 A           Switch-on current limiting (+25 °C), max.         20 A           duration of inrush current limiting at 25 °C         • maximum           I*t, max.         1.2 A²-s           Built-in incoming fuse         T 3,15 A/250 V (not accessible)           Protection in the mains power input (IEC 898)         Recommended miniature circuit breaker: from 6 A characteristic C           Output         Controlled, isolated DC voltage           Rated voltage Vout DC         24 V           • output voltage at output 1 at DC rated value         24 V           Total tolerance, static ±         3 %           Static mains compensation, approx.         0.1 %           Static load balancing, approx.         0.5 %           Residual ripple peak-peak, max.         50 mV           Residual ripple peak-peak, typ.         10 mV	• 1 at AC	85 132 V
Overvoltage resistance  2.3 × Vin rated, 1.3 ms  Mains buffering  at Vin = 93/187 V  Mains buffering at lout rated, min.  20 ms; at Vin = 93/187 V  Rated line frequency 1  Rated line frequency 2  80 Hz  Rated line range  47 63 Hz  input current  • at rated input voltage 120 V  • at rated input voltage 230 V  • at rated input voltage 230 V  duration of inrush current limiting (+25 °C), max.  duration of inrush current limiting at 25 °C  • maximum  1ºt, max.  1.2 A²-s  Built-in incoming fuse  Protection in the mains power input (IEC 898)  Recommended miniature circuit breaker: from 6 A characteristic C  Output  Output  Output Voltage at output 1 at DC rated value  24 V  • output voltage at output 1 at DC rated value  Total tolerance, static ±  3 %  Static mains compensation, approx.  Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.	• 2 at AC	170 264 V
Mains buffering at Vin = 93/187 V  Mains buffering at lout rated, min.  Rated line frequency 1  Rated line frequency 2  Rated line range input current  • at rated input voltage 120 V • at rated input voltage 230 V  Switch-on current limiting (+25 °C), max. duration of inrush current limiting at 25 °C • maximum  I²t, max.  Built-in incoming fuse Protection in the mains power input (IEC 898)  Recommended miniature circuit breaker: from 6 A characteristic C  Output  Output  Rated voltage at output 1 at DC rated value Total tolerance, static ±  Static mains compensation, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  100 HZ  20 ms; at Vin = 93/187 V  21 A  22 A  23 A  24 A  24 A  25 Satic mains compensation, approx.  24 V  25 Static load balancing, approx.  26 Sidual ripple peak-peak, max.  27 Msidual ripple peak-peak, typ.  28 Total tolerance, static ±  Static mains compensation, approx.  29 DA  20 DA  21 DA  22 DA  23 DA  24 DA  25 DA  26 DA  27 DA  28 DA  28 DA  29 DA  29 DA  20 DA  20 DA  20 DA  21 DA  22 DA  23 DA  24 DA  25 DA  26 DA  27 DA  28 DA  28 DA  29 DA  29 DA  20 DA  2	Wide-range input	No
Mains buffering at lout rated, min.  Rated line frequency 1  Rated line frequency 2  Rated line range  input current  • at rated input voltage 120 V  • at rated input voltage 230 V  Switch-on current limiting (+25 °C), max.  duration of inrush current limiting at 25 °C  • maximum   ²t, max.  Built-in incoming fuse  Protection in the mains power input (IEC 898)  Recommended miniature circuit breaker: from 6 A characteristic C  Output  Output  Controlled, isolated DC voltage  Rated voltage at output 1 at DC rated value  24 V  Total tolerance, static ±  Static mains compensation, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  20 ms; at Vin = 93/187 V  50 Hz  60 Hz  60 Hz  60 Hz  61 Hz  62 A V  2.3 A  47 63 Hz  63 Hz  64 Hz  65 Hz  66 Hz  66 Hz  67 63 Hz  68 Hz  69 Hz  60 Hz  60 Hz  60 Hz  7. 3 A  8 ms  1.2 A²-s  8 ms  1.2 A²-s  8 ms  1.2 A²-s  8 commended miniature circuit breaker: from 6 A characteristic C  Output  Output  Output  24 V  50 my  6 output voltage at output 1 at DC rated value  24 V  7 total tolerance, static ±  Static mains compensation, approx.  0.1 %  Static load balancing, approx.  0.5 %  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.	Overvoltage resistance	2.3 × Vin rated, 1.3 ms
Rated line frequency 1 Rated line frequency 2 Rated line range input current	Mains buffering	at Vin = 93/187 V
Rated line frequency 2 Rated line range input current • at rated input voltage 120 V • at rated input voltage 230 V • at rated input voltage 230 V  Switch-on current limiting (+25 °C), max.  duration of inrush current limiting at 25 °C • maximum  1²t, max.  1.2 A²-'s  Built-in incoming fuse Protection in the mains power input (IEC 898)  Recommended miniature circuit breaker: from 6 A characteristic C  Output  Output  Controlled, isolated DC voltage  Rated voltage Vout DC  4 V  • output voltage at output 1 at DC rated value  Total tolerance, static ± 3 %  Static mains compensation, approx.  Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.	Mains buffering at lout rated, min.	20 ms; at Vin = 93/187 V
Rated line range input current  • at rated input voltage 120 V • at rated input voltage 230 V  Switch-on current limiting (+25 °C), max.  duration of inrush current limiting at 25 °C • maximum  1²t, max.  Built-in incoming fuse  Protection in the mains power input (IEC 898)  Protection in the mains power input (IEC 898)  Recommended miniature circuit breaker: from 6 A characteristic C  Output  Output  Controlled, isolated DC voltage  Rated voltage Vout DC  • output voltage at output 1 at DC rated value  Total tolerance, static ±  Static mains compensation, approx.  Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  1.2 A  3 m  1.2 A  3 ms  1.2 A²-s  3 ms  1.2 A²-s  8 Controlled, isolated DC voltage  24 V  • output voltage at output 1 at DC rated value  24 V  Total tolerance, static ±  3 %  Static mains compensation, approx.  0.1 %  Static load balancing, approx.  Residual ripple peak-peak, max.  50 mV  Residual ripple peak-peak, typ.	Rated line frequency 1	50 Hz
input current  • at rated input voltage 120 V  • at rated input voltage 230 V  Switch-on current limiting (+25 °C), max.  duration of inrush current limiting at 25 °C  • maximum  1²t, max.  Built-in incoming fuse  Protection in the mains power input (IEC 898)  Protection in the mains power input (IEC 898)  Recommended miniature circuit breaker: from 6 A characteristic C  Output  Output  Controlled, isolated DC voltage  Rated voltage Vout DC  4 V  • output voltage at output 1 at DC rated value  Total tolerance, static ±  3 %  Static mains compensation, approx.  Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  10 mV	Rated line frequency 2	60 Hz
• at rated input voltage 120 V     • at rated input voltage 230 V     Switch-on current limiting (+25 °C), max.  duration of inrush current limiting at 25 °C     • maximum     3 ms   ²t, max.     1.2 A²-s  Built-in incoming fuse     T 3,15 A/250 V (not accessible)  Protection in the mains power input (IEC 898)  Recommended miniature circuit breaker: from 6 A characteristic C  Output  Output  Controlled, isolated DC voltage  Rated voltage Vout DC     24 V      • output voltage at output 1 at DC rated value  24 V  Total tolerance, static ±     3 %  Static mains compensation, approx.  Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  1.2 A  2.3 A  1.2 A  2.3 A  1.2 A  2.4 V  4.4 V  5.4 V  Controlled, isolated DC voltage  24 V  Output voltage at output 1 at DC rated value  24 V  5.5 %  Static load balancing, approx.  0.5 %  Residual ripple peak-peak, max.  5.0 mV  Residual ripple peak-peak, typ.	Rated line range	47 63 Hz
■ at rated input voltage 230 V Switch-on current limiting (+25 °C), max.  duration of inrush current limiting at 25 °C     ■ maximum  I²t, max. Built-in incoming fuse Protection in the mains power input (IEC 898)  Coutput  Output  Controlled, isolated DC voltage  Rated voltage Vout DC  At a voltage at output 1 at DC rated value  Total tolerance, static ± Static mains compensation, approx.  Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  1.2 A  20 A  20 A  21 C  22 C  3 ms  1.2 A²-s  T 3,15 A/250 V (not accessible) Recommended miniature circuit breaker: from 6 A characteristic C  24 V  24 V  3 %  Static mains compensation, approx.  0.1 %  Static load balancing, approx.  Residual ripple peak-peak, max.  50 mV  Residual ripple peak-peak, typ.	input current	
Switch-on current limiting (+25 °C), max.  duration of inrush current limiting at 25 °C  • maximum  3 ms  I²t, max.  Built-in incoming fuse  Protection in the mains power input (IEC 898)  Controlled, isolated DC voltage  Rated voltage Vout DC  4 V  • output voltage at output 1 at DC rated value  Total tolerance, static ±  Static mains compensation, approx.  Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  20 A  21 A  22 V  (not accessible)  Recommended miniature circuit breaker: from 6 A characteristic C  24 V  24 V  9 output voltage at output 1 at DC rated value  24 V  Total tolerance, static ±  Static mains compensation, approx.  Static load balancing, approx.  Static load peak-peak, max.  50 mV  Residual ripple peak-peak, typ.	<ul> <li>at rated input voltage 120 V</li> </ul>	2.3 A
duration of inrush current limiting at 25 °C	<ul> <li>at rated input voltage 230 V</li> </ul>	1.2 A
<ul> <li>maximum</li> <li>l²t, max.</li> <li>Built-in incoming fuse</li> <li>Protection in the mains power input (IEC 898)</li> <li>Recommended miniature circuit breaker: from 6 A characteristic C</li> <li>Output</li> <li>Output</li> <li>Controlled, isolated DC voltage</li> <li>Rated voltage Vout DC</li> <li>output voltage at output 1 at DC rated value</li> <li>Total tolerance, static ±</li> <li>3 %</li> <li>Static mains compensation, approx.</li> <li>Static load balancing, approx.</li> <li>Residual ripple peak-peak, max.</li> <li>Residual ripple peak-peak, typ.</li> <li>10 mV</li> </ul>	Switch-on current limiting (+25 °C), max.	20 A
I²t, max.       1.2 A²·s         Built-in incoming fuse       T 3,15 A/250 V (not accessible)         Protection in the mains power input (IEC 898)       Recommended miniature circuit breaker: from 6 A characteristic C         Output       Controlled, isolated DC voltage         Rated voltage Vout DC       24 V         ● output voltage at output 1 at DC rated value       24 V         Total tolerance, static ±       3 %         Static mains compensation, approx.       0.1 %         Static load balancing, approx.       0.5 %         Residual ripple peak-peak, max.       50 mV         Residual ripple peak-peak, typ.       10 mV	duration of inrush current limiting at 25 °C	
Built-in incoming fuse  Protection in the mains power input (IEC 898)  Recommended miniature circuit breaker: from 6 A characteristic C  Output  Output  Controlled, isolated DC voltage  Rated voltage Vout DC  • output voltage at output 1 at DC rated value  Total tolerance, static ±  Static mains compensation, approx.  Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  T 3,15 A/250 V (not accessible)  Recommended miniature circuit breaker: from 6 A characteristic C  Controlled, isolated DC voltage  24 V  54 V  50 MV  Residual ripple peak-peak, max.  50 mV	• maximum	3 ms
Protection in the mains power input (IEC 898)  Recommended miniature circuit breaker: from 6 A characteristic C  Output  Output  Controlled, isolated DC voltage  Rated voltage Vout DC  • output voltage at output 1 at DC rated value  Total tolerance, static ±  Static mains compensation, approx.  Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  Residual ripple peak-peak, typ.  Residual ripple peak-peak, typ.	I²t, max.	1.2 A <sup>2</sup> ·s
Output  Controlled, isolated DC voltage  Rated voltage Vout DC  ● output voltage at output 1 at DC rated value  Total tolerance, static ±  Static mains compensation, approx.  Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  Controlled, isolated DC voltage  24 V  04 V  05 V  05 W  05 W  05 W  05 mV  05 mV  05 mV	Built-in incoming fuse	T 3,15 A/250 V (not accessible)
Output Controlled, isolated DC voltage  Rated voltage Vout DC 24 V  ● output voltage at output 1 at DC rated value 24 V  Total tolerance, static ± 3 %  Static mains compensation, approx. 0.1 %  Static load balancing, approx. 0.5 %  Residual ripple peak-peak, max. 50 mV  Residual ripple peak-peak, typ. 10 mV	Protection in the mains power input (IEC 898)	Recommended miniature circuit breaker: from 6 A characteristic C
Rated voltage Vout DC 24 V   ● output voltage at output 1 at DC rated value 24 V   Total tolerance, static ± 3 %   Static mains compensation, approx. 0.1 %   Static load balancing, approx. 0.5 %   Residual ripple peak-peak, max. 50 mV   Residual ripple peak-peak, typ. 10 mV	Output	
● output voltage at output 1 at DC rated value  Total tolerance, static ±  Static mains compensation, approx.  Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  10 mV	Output	Controlled, isolated DC voltage
Total tolerance, static ± 3 %  Static mains compensation, approx. 0.1 %  Static load balancing, approx. 0.5 %  Residual ripple peak-peak, max. 50 mV  Residual ripple peak-peak, typ. 10 mV	Rated voltage Vout DC	24 V
Static mains compensation, approx.  Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  10 mV	• output voltage at output 1 at DC rated value	24 V
Static load balancing, approx.  Residual ripple peak-peak, max.  Residual ripple peak-peak, typ.  10 mV	Total tolerance, static ±	3 %
Residual ripple peak-peak, max. 50 mV Residual ripple peak-peak, typ. 10 mV	Static mains compensation, approx.	0.1 %
Residual ripple peak-peak, typ. 10 mV	Static load balancing, approx.	0.5 %
	Residual ripple peak-peak, max.	50 mV
	Residual ripple peak-peak, typ.	10 mV
Spikes peak-peak, max. (bandwidth: 20 MHz) 150 mV	Spikes peak-peak, max. (bandwidth: 20 MHz)	150 mV
Spikes peak-peak, typ. (bandwidth: 20 MHz) 20 mV	Spikes peak-peak, typ. (bandwidth: 20 MHz)	20 mV
product function output voltage adjustable No	product function output voltage adjustable	No
Output voltage setting -	Output voltage setting	•
Status display Green LED for 24 V OK	Status display	Green LED for 24 V OK

Slartup delay, max.  Voltage rise, typ.  Voltage rise, typ.  One  Relad current value lout rated  5 A  Current range  0 5 A  Supplied ackne power typical  120 W  short-circult guiring persation typical  1 as short-circulting operation by start up typical  1 as short-circulting during persation typical  1 on short-circulting during persation  1 on short-circulting during the start-up typical  1 on short-circulting during deserting the start-up typical  1 on short-circulting during the start-up typical  2 on A  2 on A  2 on A  2 on A  3 short-circult pricing during the start-up typical  2 on A  3 short-circult pricing during the start-up typical  2 on A  3 short-circult protection  2 on Short-circu	On/off behavior	No overshoot of Vout (soft start)
Voltage rise, typ.   10 ms   Ralled current value four trated   5.A		
Raded current value four rated  Current range  O		
Current range		
supplied active power typical short-firm evertoad current  • on short-circuiting during the start-up typical  • of a short-circuiting during the start-up typical  • of a short-circuiting during the start-up  • at short-circuiting during the start-up  • Britishory   Efficiency   Efficiency   Efficiency   Efficiency   Efficiency   Efficiency   Dynamic mains compensation (Vin rated ±15 %), max.   Protection and monitoring   Output overolage protection   5.5 5.5 A   property of the output short-circuit proof  Yes  Short-circuit protection   5.5 5.5 A   Protection and monitoring   Current immitted   • maximum   7 A   Safety   PrimarySecondary isolation   galvanic isolation   • maximum   3.5 mA   • replication   • maximum   3.5 mA   • replication   • maximum   3.5 mA   • replication   • maximum   4.  ypical   • Dynamic series   • maximum   5.5 m.   Class I   Electronic shutdown, automatic restart   • maximum   • replication   • maximum   5.5 m.   5.6 A   Yes   Cultus (Listed (UL) 508, CSA C22.2 No. 142), File E143289   ECCENTIAN   • Ves   Cultus (Listed (UL) 508, CSA C22.2 No. 142), File E143289   ECCENTIAN   ECCENTIAN   ECCENTIAN   • Reproval   ECCENTIAN    Cass I, Div.		
short-term overload current  • an short-circuiting during the start-up hypical  • at short-circuiting during the start-up hypical  • at short-circuiting during spability for excess current  • an short-circuiting during he start-up  • at short-circuit during operation  Perallel switching for enhanced performance  Efficiency  Efficiency		
e on short-circuling during the start-up hylicial at short-circulit during operation typical  Juration of overloading capability for excess current on short-circuling during the start-up at short-circuling during the start-up between the start-up at short-circuling during the start-up at short-circuling during the start-up between the start-up at short-circuling the start-up between the start-up between the start-up between the start-up both short-circuling the start-up by an at short-circuling the start-up by aminic load smoothing (but, 501 00160 9%), but ± typ. by and load smoothing (but, 501 00160 9%), but ± typ. by and load stap setting time 50 to 100%, typ. by an at start plant in start plant plant in start plant plant in start plant in start plant in start plant in start plant plant in start plant in start plant plant in start plant		
a st short-circuit during operation typical duration of overloading capability for excess current		20 A
duration of overheading capability for excess current  • on short-circuiting during the start-up  • at short-circuit during operation  Parallel switching for enhanced performance  Efficiency S  Efficiency at Yout rated, lout rated, approx.  Power loss at Yout rated, lout rated, approx.  18 W  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lost \$100,005 %), Uout ± typ.  Load step setting time \$10 to 100%, typ.  Protection and monitoring  Output overvoltage protection  Current limitation  5.5 6.5 A  property of the output short-circuit proof  Short-circuit protection  enduring short circuit current RMS value  • maximum  • maximum  • TA  Safety  Primary/secondary isolation  galvanic isolation  • maximum  • typical  • maximum  • yepical  • maximum  • yepical  • maximum  • yepical  • Degree of protection (EN 60529)  Approvals  ECE mark  • Class I  EVes  Emited interference  Emited interference  Emited interference  Emited interference  Emited interference  • More during shorage  • Uning operation  • Outing of capability NEC Class 2  Humolity class according to EN 60721  Climate class \$K3.595% no condensation	0 0 1 3.	
Parallel switching for enhanced performance  Efficiency  Efficiency  Efficiency at Yout rated, lout rated, approx.  18 W  Closed-Loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/55 %), Uout ± typ.  Load step setting time 50 to 10%, typ.  Protection and monitoring  Output overvoitage protection  Current limitation  Current limitation  Electronic shutdown, automatic restart  Current limitation  enduring short circuit current RMS value  maximum  Trimary/secondary isolation  galvanic isolation  Protection dass  Class I  Beakage current  maximum  Typical  Degree of protection (EN 60529)  Approvals  CE mark  UL/CUL (CSA) approval  Explosion protection  Explosion protect	on short-circuiting during the start-up	100 ms
Parallel switching for enhanced performance  Efficiency  Efficiency  Efficiency at Yout rated, lout rated, approx.  18 W  Closed-Loop control  Dynamic mains compensation (Vin rated ±15 %), max.  Dynamic load smoothing (lout: 50/100/55 %), Uout ± typ.  Load step setting time 50 to 10%, typ.  Protection and monitoring  Output overvoitage protection  Current limitation  Current limitation  Electronic shutdown, automatic restart  Current limitation  enduring short circuit current RMS value  maximum  Trimary/secondary isolation  galvanic isolation  Protection dass  Class I  Beakage current  maximum  Typical  Degree of protection (EN 60529)  Approvals  CE mark  UL/CUL (CSA) approval  Explosion protection  Explosion protect		100 ms
Efficiency at Vout rated, lout rated, approx. Power loss at Vout rated, lout rated, approx. 18 W  Closed-loop control  Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout; 50/100/50 %), Uout ± typ. Load step setting time 50 to 100%, typ. Protection and monitoring  Output overvoitage protection  Current limitation  property of the output short-circuit proof Short-circuit protection  enduring short circuit current RMS value  maximum  7 A  Safoty  Primary/secondary isolation  galvanic isolation Protection class  leakage current  maximum  1 yes  galvanic isolation Protection (EN 60529)  Approvals  CE mark  UL/CUL (CSA) approval  EV/Ses  Mapproval  EV/Ses  Mapproval  CR approval  EMC  Emitted interference  Supply harmonics limitation  EN 55022 Class B  Supply harmonics limitation  EN 56020  CH uning dynamic interference  Supply harmonics limitation  On the during short counter and the supply of the supply harmonics limitation  EN 55022 Class B  Supply harmonics limitation  Note  during storage  Humidity (lass according to EN 60721  Humidity (lass according to EN 60721  Humidity (lass according to EN 60721	Parallel switching for enhanced performance	Yes
Power loss at Vout rated, lout rated, approx.    Closed-Roop control	Efficiency	
Power loss at Vout rated, lout rated, approx.   18 W	Efficiency at Vout rated, lout rated, approx.	87 %
Dynamic mains compensation (Vin rated ±15 %), max. Dynamic load smoothing (lout ± 50/100/50 %), Uout ± typ. Load step setting time 50 to 100%, typ. Uout step setting time 50 to 100%, typ. Uout step setting time 100 to 50%, typ. Uout of the output short-circuit proof Short-circuit protection enduring short circuit current RMS value maximum 7 A Safety Primary/secondary isolation galvanic isolation galvanic isolation Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Class I leakage current maximum 3.5 mA typical Sprovals CE mark UL/CUL (CSA) approval Explosion protection  EIECEX ex n a nC IIC T3 GC; ATLEX (EX) II 3G Ex n An C IIC T3 GC; CLUs (ANSINSA 12:12.01, CSA C22.2 No. 142), File E143289 Cuttus (ANSINSA 12:12.01, CSA C22.2 No. 142), File E143289 Certificate of suitability NEC Class 2 No File approval Certificate of suitability NEC Class 2 File approval Certificate of suitability NEC Class 2 File approval Certificate of suitability SEA capproval Remitted interference Supply harmonics limitation Noise immunity File 100-6-2 File 100-6-2 File 100-6-2 File 200-6-2 File 300-6-2 File 40 +85 °C Limited class according to EN 60721 File 200-6-2 File 200-6		18 W
Dynamic load smoothing (lout: 80/100/50 %), Uout ± typ. Load step setting time 50 to 100%, typ. Load step setting time 100 to 50%, typ.  Protection and monitoring Output overvoltage protection Current limitation 5.56.5 A property of the output short-circuit proof Short-circuit protection enduring short circuit current RMS value • maximum 7 A Safety Primary/secondary isolation galvanic isolation Protection class leakage current • maximum	Closed-loop control	
Dynamic load smoothing (lout: 80/100/50 %), Uout ± typ. Load step setting time 50 to 100%, typ. Load step setting time 100 to 50%, typ.  Protection and monitoring Output overvoltage protection Current limitation 5.56.5 A property of the output short-circuit proof Short-circuit protection enduring short circuit current RMS value • maximum 7 A Safety Primary/secondary isolation galvanic isolation Protection class leakage current • maximum	Dynamic mains compensation (Vin rated ±15 %), max.	0.1 %
Load step setting time 50 to 100%, typ. Load step setting time 100 to 50%, typ. Protection and monitoring Output overvoltage protection Current limitation Property of the output short-circuit proof Short-circuit protection Electronic shutdown, automatic restart enduring short circuit current RMS value e maximum  7 A  Safety Primary/secondary isolation Protection acidsas leakage current e maximum  3.5 mA 1.5 mA 2.5 mA 2.6 maximum 9.1 yes UL/CUL (CSA) approval Explosion protection Electronic shutdown, automatic restart enduring short circuit current RMS value e maximum 9.1 ypical 0.5 mA 1.5 mA 9.5 mA 9.5 mA 9.5 mA 9.6 ypical 9.20  Explosion protection (EN 60529)  Explosion protection Electronic shutdown, automatic restart enduring short circuit current RMS value e maximum 1.5 mA 2.5 mA 3.5 mA 3.5 mA 3.5 mA 4.5 m		
Load step setting time 100 to 50%, typ.  Protection and monitoring  Output overvoltage protection  Additional control loop, shutdown at < 28.8 V, automatic restart  5.56.5 A  property of the output short-circuit proof  Short-circuit protection  enduring short circuit current RMS value  • maximum  7 A  Safety  Primary/secondary isolation  galvanic isolation  Asfety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178  Protection class  Class I  leakage current  • maximum  • typical  Degree of protection (EN 60529)  Approvals  CE mark  UL/OLL (CSA) approval  Explosion protection  EICEX Ex nA nC IIC 73 GC; ATEX (EX) II 3G Ex nA nC IIC 73 GC; CLULUs (ANSI/ISA 12.12.01, CSA C22.2 No. 142), File E143289  EVENT Explosion protection  EICEX Ex nA nC IIC 73 GC; ATEX (EX) II 3G Ex nA nC IIC 73 GC; CLULUs (ANSI/ISA 12.12.01, CSA C22.2 No. 213) Class I, Div. 2, Group ABCD, T4, File E330455  Certificate of suitability NEC Class 2  No  FM approval  CR approval  CR approval  EMG  Emitted interference  EN 55022 Class B  Supply harmonics limitation  Noise immunity  EN 61000-8-2  convironmental conditions  ambient temperature  • during storage  40 +85 °C  +40 +85 °C  +40 +85 °C  +40 +85 °C  +40 +85 °C  -40		
Protection and monitoring		
Output overvoltage protection Current limitation 5.56.5 A property of the output short-circuit proof Short-circuit protection Electronic shutdown, automatic restart enduring short circuit current RMS value maximum 7.A Safety Primary/secondary isolation galivanic isolation Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Protection class Leakage current maximum 3.5. mA Typical Operated Supply Degree of protection (EN 60529) Degree of protection (EN 60529) IP20 Approvals CE mark UL/CUL (CSA) approval Explosion protection  CE mark UL/CUL (CSA) approval Explosion protection  Certificate of suitability NEC Class 2 No FM approval CB ABCD, T4, File E330455 No Chuse immunity CB 61000-6-2 Emitted interference EN 55022 Class B Supply harmonics limitation CB 61000-6-2 Emitted interference SD 55022 Class B Supply harmonics limitation CB 61000-6-2 Environmental conditions ambient temperature  • uturing operation — Note • during protage Humidity class according to EN 60721 Climate class 3K3, 5 95% no condensation		
Current limitation 5.5 6.5 A property of the output short-circuit proof Yes Short-circuit protection		Additional control loop, shutdown at < 28.8 V, automatic restart
property of the output short-circuit proof Short-circuit protection enduring short circuit current RMS value • maximum  7 A  Safety Primary/secondary isolation galvanic isolation Protection class leakage current • maximum • typical • protection (EN 60529)  Approvals  CE mark UL/CUL (CSA) approval EXPlosion protection  CE mark UL/CUL (CSA) approval  EXPlosion protection  Catificate of suitability NEC Class 2  FM approval  CB catificate of suitability NEC Class 2  FM approval  CB ACC 22.2 No. 213) Class I, Div. 2, Group ABCD, T4  CB approval  CB approval  CB ACC 25.2 No. 213) Class I, Div. 2, Group ABCD, T4  CB approval  CB ACC 25.2 No. 213) Class I, Div. 2, Group ABCD, T4  CB approval  CB ACC 25.2 No. 213  CB		
Short-circuit protection enduring short circuit current RMS value  • maximum  7 A  Safety  Primary/secondary isolation galvanic isolation Safety extra-low output voltage Uout acc. to EN 60950-1 and EN 50178 Protection class leakage current • maximum • typical O.5 mA  Degree of protection (EN 60529) IP20  Approvals  CE mark UL/CUL (CSA) approval Explosion protection Explosion protection IECEX Ex nA nC IIC T3 Gc; ATEX (EX) II 3G Ex nA nC IIC T3 Gc; cULus (ANSI/ISA 12.12.01, CSA C22.2 No. 213) Class I, Div. 2, Group ABCD, T4, File E303455  certificate of suitability NEC Class 2 No certificate of suitability EAC approval CB approval CCB approval Certificate of suitability EAC approval In S7-300 system  EMC  Emitted interference Supply harmonics limitation EN 61000-6-2  environmental conditions ambient temperature • during preration • during proration • during storage Humidity class according to EN 60721 Climate class 3K3, 5 95% no condensation		
enduring short circuit current RMS value enaximum 7 A  Safety  Primary/secondary isolation galvanic isolation Protection class Class I  leakage current enaximum 3.5 mA etypical 0.5 mA  typical 0.5 mA  Degree of protection (EN 60529) IP20  Approvals CE mark UL/CUL (CSA) approval Explosion protection EICEX EX HA NC IIC T3 GC; ATEX (EX) II 36 EX HA NC IIC T3 GC; CULus (ANSI/SA 12,12 01, CSA C22.2 No. 213) Class I, Div. 2, Group ABCD, T4, File E330455  Certificate of suitability EAC approval CB CB approval CB CB approval CB CB approval CB C		
• maximum  Primary/secondary isolation  galvanic isolation  Protection class  leakage current  • maximum  • typical  • pypical  Degree of protection (EN 60529)  ### UL/CUL (CSA) approval  Explosion protection  ### Class I  ### UL/CUL (CSA) approval  ### Cullus (ANSI/ISA 12.12.01, CSA C22.2 No. 142), File E143289  ### E304563 Approval  ### E304563 Approval  ### Class I  ### Class	<u> </u>	,
Primary/secondary isolation galvanic isolation Protection class   Class   Class     Eleakage current   • maximum   3.5 mA     • typical   0.5 mA     Degree of protection (EN 60529)   IP20     Approvals     CE mark   Yes     UL/CUL (CSA) approval   CULus-Listed (UL 508, CSA C22.2 No. 142), File E143289     Explosion protection   ECEX Ex nA nC IIC T3 Gc; ATEX (EX) II 3G Ex nA nC IIC T3 Gc; cULus (ANSI/SA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455     CE mark   Yes   Cultus (ANSI/SA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455     Cass I, Div. 2, Group ABCD, T4     CB approval   Class I, Div. 2, Group ABCD, T4     CB approval   No     certificate of suitability EAC approval   Yes     Marine approval   In S7-300 system     EMC     Emitted interference   EN 55022 Class B     Supply harmonics limitation   EN 61000-6-2     Supply harmonics limitation   EN 61000-6-2     environmental conditions     ambient temperature   • during operation   0 60 °C     with natural convection   • during transport   -40 +85 °C     Humidity class according to EN 60721   Climate class 3K3, 5 95% no condensation		7 A
Primary/secondary isolation galvanic isolation Protection class   Class   Class     Eleakage current   • maximum   3.5 mA     • typical   0.5 mA     Degree of protection (EN 60529)   IP20     Approvals     CE mark   Yes     UL/CUL (CSA) approval   CULus-Listed (UL 508, CSA C22.2 No. 142), File E143289     Explosion protection   ECEX Ex nA nC IIC T3 Gc; ATEX (EX) II 3G Ex nA nC IIC T3 Gc; cULus (ANSI/SA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455     CE mark   Yes   Cultus (ANSI/SA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455     Cass I, Div. 2, Group ABCD, T4     CB approval   Class I, Div. 2, Group ABCD, T4     CB approval   No     certificate of suitability EAC approval   Yes     Marine approval   In S7-300 system     EMC     Emitted interference   EN 55022 Class B     Supply harmonics limitation   EN 61000-6-2     Supply harmonics limitation   EN 61000-6-2     environmental conditions     ambient temperature   • during operation   0 60 °C     with natural convection   • during transport   -40 +85 °C     Humidity class according to EN 60721   Climate class 3K3, 5 95% no condensation	Safety	
galvanic isolation  Protection class  Class I  Class I  Leakage current  • maximum • typical  Degree of protection (EN 60529)  Approvals  CE mark  UL/cUL (CSA) approval  Explosion protection  Class I, Div. 2, Group ABCD, T4, File E330455  Certificate of suitability EAC approval  CB approval  CB approval  CB mark  UNo  CH mark  UL-CUL (CSA) approval  Explosion protection  Capproval  Capproval  Coultus (ANSI/ISA 12.12.01, CSA C22.2 No. 142), File E143289  Explosion protection  LECEX EX nA nC IIC T3 GC; ATEX (EX) II 3G EX nA nC IIC T3 GC; cUL us (ANSI/ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455  Certificate of suitability NEC Class 2  No  FM approval  CB approval  CB approval  CB in S7-300 system  EMC  Emitted interference  EN 55022 Class B  Supply harmonics limitation  EN 61000-3-2  EN 61000-3-2  environmental conditions  ambient temperature  • during operation  — Note  • during transport  • during transport  • during storage  Humidity class according to EN 60721  Climate class 3K3, 5 95% no condensation		Yes
Protection class    leakage current		
leakage current		
maximum typical pegree of protection (EN 60529)  Approvals  CE mark UL/cUL (CSA) approval  Explosion protection  Explosion protection  Cetrificate of suitability NEC Class 2 No Certificate of suitability EAC approval  Cetrificate of suitability EAC approval  Emitted  Emitted  Emitted interference  Supply harmonics limitation  Noise immunity  En 61000-6-2  environmental conditions  ambient temperature  during years and conditions  environmental conditions  during storage  Humidity class according to EN 60721  Climate class 3K3, 5 95% no condensation		
Degree of protection (EN 60529)  Approvals  CE mark  UL/cUL (CSA) approval  Explosion protection  ECE Explosion protection  ECEX Ex nA nC IIC T3 Gc; ATEX (EX) II 3G Ex nA nC IIC T3 Gc; CULus (ANSI/ISA 12.12.01, CSA C22.2 No. 213) Class I, Div. 2, Group ABCD, T4, File E330455  Certificate of suitability NEC Class 2  No  FM approval  CB approval  Cetificate of suitability EAC approval  No  certificate of suitability EAC approval  In S7-300 system  EMC  Emitted interference  EN 55022 Class B  Supply harmonics limitation  EN 61000-3-2  Noise immunity  EN 61000-6-2  environmental conditions  ambient temperature  • during operation  — Note  • during transport  • during storage  Humidity class according to EN 60721  CILLus (AUSI/ISA C22.2 No. 142), File E143289  CLLus (AUSI/ISA)  CEX ATEX (EX) II 3G EX nA nC IIC T3 Gc; CULus (AVSI/ISA)  CLLus (AUSI/ISA)  (CLLus (ANSI/ISA) 12.12.01, CSA C22.2 No. 213) Class I, Div. 2, Group ABCD, T4  Colass I, Div. 2, Group ABCD, T4  No  Class I, Div. 2, Group ABCD, T4  No  Class I, Div. 2, Group ABCD, T4  Ps  Solve Class II 3G EX nA nC IIC T3 Gc; CLLus (ANSI/ISA)  CLISS II, Div. 2, Group ABCD, T4  No  Class I, Div. 2, Group ABCD, T4  Ps  Solve Class II 3G EX nA nC IIC T3 Gc; CLLus (ANSI/ISA)  CLISS II, Div. 2, Group ABCD, T4  Solve Class II, Div. 2, Group ABCD, T4  Class II, Div. 2, Group ABCD, T4  Solve Class II 3G EX nA nC IIC T3 Gc; CLLus III 3G EX nA nc IIC T3 Gc; C		3.5 mA
Degree of protection (EN 60529)  Approvals  CE mark  UL/cUL (CSA) approval  Explosion protection  ECE Explosion protection  ECEX Ex nA nC IIC T3 Gc; ATEX (EX) II 3G Ex nA nC IIC T3 Gc; CULus (ANSI/ISA 12.12.01, CSA C22.2 No. 213) Class I, Div. 2, Group ABCD, T4, File E330455  Certificate of suitability NEC Class 2  No  FM approval  CB approval  Cetificate of suitability EAC approval  No  certificate of suitability EAC approval  In S7-300 system  EMC  Emitted interference  EN 55022 Class B  Supply harmonics limitation  EN 61000-3-2  Noise immunity  EN 61000-6-2  environmental conditions  ambient temperature  • during operation  — Note  • during transport  • during storage  Humidity class according to EN 60721  CILLus (AUSI/ISA C22.2 No. 142), File E143289  CLLus (AUSI/ISA)  CEX ATEX (EX) II 3G EX nA nC IIC T3 Gc; CULus (AVSI/ISA)  CLLus (AUSI/ISA)  (CLLus (ANSI/ISA) 12.12.01, CSA C22.2 No. 213) Class I, Div. 2, Group ABCD, T4  Colass I, Div. 2, Group ABCD, T4  No  Class I, Div. 2, Group ABCD, T4  No  Class I, Div. 2, Group ABCD, T4  Ps  Solve Class II 3G EX nA nC IIC T3 Gc; CLLus (ANSI/ISA)  CLISS II, Div. 2, Group ABCD, T4  No  Class I, Div. 2, Group ABCD, T4  Ps  Solve Class II 3G EX nA nC IIC T3 Gc; CLLus (ANSI/ISA)  CLISS II, Div. 2, Group ABCD, T4  Solve Class II, Div. 2, Group ABCD, T4  Class II, Div. 2, Group ABCD, T4  Solve Class II 3G EX nA nC IIC T3 Gc; CLLus III 3G EX nA nc IIC T3 Gc; C	• typical	0.5 mA
CE mark  UL/cUL (CSA) approval  cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289  Explosion protection  Explosion protection  Explosion protection  Explosion protection  IECEX Ex nA nC IIC T3 Gc; ATEX (EX) II 3G Ex nA nC IIC T3 Gc; cULus (ANSI/ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455  certificate of suitability NEC Class 2  No  FM approval  Class I, Div. 2, Group ABCD, T4  CB approval  No  certificate of suitability EAC approval  Yes  Marine approval  In S7-300 system  EMC  Emitted interference  EN 55022 Class B  Supply harmonics limitation  EN 61000-3-2  Noise immunity  EN 61000-6-2  environmental conditions  ambient temperature  • during operation  - Note  • during operation  • during transport  • during storage  Humidity class according to EN 60721  Climate class 3K3, 5 95% no condensation	Degree of protection (EN 60529)	
UL/cUL (CSA) approval  Explosion protection  CULus-Listed (UL 508, CSA C22.2 No. 142), File E143289  Explosion protection  IECEX EX nA nC IIC T3 GC; ATEX (EX) II 3G EX nA nC IIC T3 GC; cULus (ANSI/ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455  PM approval  CB approval  CB approval  CB approval  CIBSS I, Div. 2, Group ABCD, T4  CB approval  Permitted of suitability EAC approval  In S7-300 system  EMC  Emitted interference  EN 55022 Class B  Supply harmonics limitation  EN 61000-3-2  Noise immunity  EN 61000-6-2  environmental conditions  ambient temperature  ouring operation  Noise  during operation  ouring transport  during storage  Humidity class according to EN 60721  Climate class 3K3, 5 95% no condensation	Approvals	
Explosion protection  IECEX EX nA nC IIC T3 Gc; ATEX (EX) II 3G EX nA nC IIC T3 Gc; cULus (ANSI/ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455  Certificate of suitability NEC Class 2  No  FM approval  CB approval  certificate of suitability EAC approval  Marine approval  In S7-300 system  EMC  Emitted interference  EN 55022 Class B  Supply harmonics limitation  EN 61000-3-2  Noise immunity  EN 61000-6-2  environmental conditions  ambient temperature  • during operation  — Note  • during transport  • during storage  Humidity class according to EN 60721  I Class I, Div. 2, Group ABCD, T4  Oclass I, Div. 2, Group ABCD, T4  Class I, Div. 2, Group ABCD, T4  Class I, Div. 2, Group ABCD, T4  Class I, Div. 2, Group ABCD, T4  Oclass I, Div. 2, Group ABCD, T4  Class I, Div. 2, Group ABCD, T4  Oclass I, Div. 2, Group ABCD, T4  Class I, Div. 2, Group ABCD, T4  Oclass II, Div. 2, Group	CE mark	Yes
Explosion protection  IECEX EX nA nC IIC T3 Gc; ATEX (EX) II 3G EX nA nC IIC T3 Gc; cULus (ANSI/ISA 12.12.01, CSA C22.2 No.213) Class I, Div. 2, Group ABCD, T4, File E330455  Certificate of suitability NEC Class 2  No  FM approval  CB approval  certificate of suitability EAC approval  Marine approval  In S7-300 system  EMC  Emitted interference  EN 55022 Class B  Supply harmonics limitation  EN 61000-3-2  Noise immunity  EN 61000-6-2  environmental conditions  ambient temperature  • during operation  — Note  • during transport  • during storage  Humidity class according to EN 60721  I Class I, Div. 2, Group ABCD, T4  Oclass I, Div. 2, Group ABCD, T4  Class I, Div. 2, Group ABCD, T4  Class I, Div. 2, Group ABCD, T4  Class I, Div. 2, Group ABCD, T4  Oclass I, Div. 2, Group ABCD, T4  Class I, Div. 2, Group ABCD, T4  Oclass I, Div. 2, Group ABCD, T4  Class I, Div. 2, Group ABCD, T4  Oclass II, Div. 2, Group		cULus-Listed (UL 508, CSA C22.2 No. 142), File E143289
ABCD, T4, File E330455  certificate of suitability NEC Class 2  FM approval  Class I, Div. 2, Group ABCD, T4  CB approval  No  certificate of suitability EAC approval  Marine approval  EMC  Emitted interference  EN 55022 Class B  Supply harmonics limitation  EN 61000-3-2  Noise immunity  EN 61000-6-2  environmental conditions  ambient temperature  • during operation  — Note  • during transport  • during storage  Humidity class according to EN 60721  Class I, Div. 2, Group ABCD, T4  No  Class I, Div. 2, Group ABCD, T4  No  Class I, Div. 2, Group ABCD, T4  Pes  No  Class I, Div. 2, Group ABCD, T4  No  Class I, Div. 2, Group ABCD, T4  Ocale ABCD, T4, File E330455  No  Class I, Div. 2, Group ABCD, T4  No  Class I, Div. 2, Group ABCD, T4  Ocale ABCD, T4  No  Class I, Div. 2, Group ABCD, T4  Ocale ABCD, T4  No  Class I, Div. 2, Group ABCD, T4  Ocale ABCD, T4  No  Class I, Div. 2, Group ABCD, T4  Ocale A		
certificate of suitability NEC Class 2  FM approval  CB approval  CB approval  Certificate of suitability EAC approval  Marine approval  Emitted interference  Emitted interference  Supply harmonics limitation  No EN 61000-3-2  Environmental conditions  ambient temperature  of during operation  Note  of during transport  of during storage  Humidity class according to EN 60721  No Class I, Div. 2, Group ABCD, T4  Emitted Interference  EM Class I, Div. 2, Group ABCD, T4  No Class I, Div. 2, Group ABCD, T4  No Class I, Div. 2, Group ABCD, T4  Of Class I, Div. 2, Group		
Class I, Div. 2, Group ABCD, T4  CB approval  Certificate of suitability EAC approval  Marine approval  EMC  Emitted interference  En 55022 Class B  Supply harmonics limitation  EN 61000-3-2  Noise immunity  EN 61000-6-2  environmental conditions  ambient temperature  • during operation  — Note  • during transport  • during transport  • during storage  Humidity class according to EN 60721  Class I, Div. 2, Group ABCD, T4  No  O  No  Ves  EN 61000-3-2  EN 61000-3-2  EN 61000-6-2  environmental conditions  arbient temperature  • during operation  - Note  • during transport  - 40 +85 °C  - Humidity class according to EN 60721  Climate class 3K3, 5 95% no condensation		
CB approval  certificate of suitability EAC approval  Marine approval  In S7-300 system  EMC  Emitted interference  En 55022 Class B  Supply harmonics limitation  EN 61000-3-2  Noise immunity  EN 61000-6-2  environmental conditions  ambient temperature  • during operation  — Note  • during transport  • during storage  40 +85 °C  Humidity class according to EN 60721  No  Ves  Ves  EN 6000 System  EN 65022 Class B  EN 61000-3-2  EN 61000-6-2  environmental conditions  arbient temperature  • during operation  - 40 +85 °C		
Certificate of suitability EAC approval  Marine approval  In S7-300 system  EMC  Emitted interference  EN 55022 Class B  Supply harmonics limitation  EN 61000-3-2  Noise immunity  EN 61000-6-2  environmental conditions  ambient temperature  • during operation  — Note  • during transport  • during storage  Humidity class according to EN 60721  Yes  EN 6200 system  EN 65022 Class B  EN 61000-3-2  EN 61000-6-2  EN 61000-6		
Marine approval  EMC  Emitted interference  EN 55022 Class B  Supply harmonics limitation  EN 61000-3-2  Noise immunity  EN 61000-6-2  environmental conditions  ambient temperature  • during operation  — Note  • during transport  • during storage  Humidity class according to EN 60721  In S7-300 system  EN 55022 Class B  EN 61000-3-2  EN 61000-6-2  EN		
EMC  Emitted interference EN 55022 Class B  Supply harmonics limitation EN 61000-3-2  Noise immunity EN 61000-6-2  environmental conditions  ambient temperature  • during operation 0 60 °C  — Note with natural convection  • during transport -40 +85 °C  • during storage -40 +85 °C  Humidity class according to EN 60721 Climate class 3K3, 5 95% no condensation		
Emitted interference  Supply harmonics limitation  EN 61000-3-2  Noise immunity  EN 61000-6-2  environmental conditions  ambient temperature  • during operation  — Note  • during transport  • during storage  • during storage  Humidity class according to EN 60721  EN 61000-6-2  EN 61000-6-2  • 0 60 °C  with natural convection  -40 +85 °C  -40 +85 °C  Climate class 3K3, 5 95% no condensation		In S7-300 system
Supply harmonics limitation  EN 61000-3-2  Noise immunity  EN 61000-6-2  environmental conditions  ambient temperature  • during operation  — Note  • during transport  • during storage  • during storage  Humidity class according to EN 60721  EN 61000-3-2  EN 61000-3-2  EN 61000-3-2  EN 61000-3-2   O 60 °C  with natural convection  -40 +85 °C  -40 +85 °C  Climate class 3K3, 5 95% no condensation		
Noise immunity  EN 61000-6-2  environmental conditions  ambient temperature  • during operation  — Note  • during transport  • during storage  Auring storage  Humidity class according to EN 60721  EN 61000-6-2   0 60 °C  with natural convection  -40 +85 °C  -40 +85 °C  Climate class 3K3, 5 95% no condensation		
environmental conditions  ambient temperature  • during operation  — Note  • during transport  • during storage  • during storage  Humidity class according to EN 60721  • during transport  — 40 +85 °C  — Climate class 3K3, 5 95% no condensation		
ambient temperature  • during operation  — Note  • during transport  • during storage  • during storage  Humidity class according to EN 60721  • during temperature  0 60 °C  with natural convection  -40 +85 °C  -40 +85 °C  Climate class 3K3, 5 95% no condensation	,	EN 61000-6-2
<ul> <li>during operation</li> <li>Note</li> <li>during transport</li> <li>during storage</li> <li>Humidity class according to EN 60721</li> <li>0 60 °C</li> <li>with natural convection</li> <li>-40 +85 °C</li> <li>-40 +85 °C</li> <li>Climate class 3K3, 5 95% no condensation</li> </ul>		
<ul> <li>Note</li> <li>during transport</li> <li>during storage</li> <li>Humidity class according to EN 60721</li> <li>with natural convection</li> <li>-40 +85 °C</li> <li>-40 +85 °C</li> <li>Climate class 3K3, 5 95% no condensation</li> </ul>	•	
<ul> <li>◆ during transport</li> <li>◆ during storage</li> <li>←40 +85 °C</li> <li>←40 +85 °C</li> <li>Humidity class according to EN 60721</li> <li>Climate class 3K3, 5 95% no condensation</li> </ul>		
● during storage  -40 +85 °C  Humidity class according to EN 60721  Climate class 3K3, 5 95% no condensation	— Note	
Humidity class according to EN 60721 Climate class 3K3, 5 95% no condensation		
· · · · · · · · · · · · · · · · · · ·		
Mechanics		Climate class 3K3, 5 95% 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
Output	L+, M: 3 screw terminals each for 0.5 2.5 mm <sup>2</sup>
<ul> <li>Auxiliary</li> </ul>	-
width of the enclosure	60 mm
height of the enclosure	125 mm
depth of the enclosure	120 mm
required spacing	
• top	40 mm
• bottom	40 mm
• left	0 mm
• right	0 mm
Weight, approx.	0.6 kg
product feature of the enclosure housing can be lined up	Yes
Installation	Can be mounted onto S7 rail
mechanical accessories	Mounting adapter for standard mounting rail (6EP1971-1BA00)
MTBF at 40 °C	2 480 589 h
other information	Specifications at rated input voltage and ambient temperature +25 °C (unless otherwise specified)

