

Data sheet for SINAMICS G120D

Article No.: 6SL3525-0PE25-5AA1

Figure simila

Client order no. : Order no. : Offer no. : Remarks :

High Overload (HO)

Rated data		
Input		
Number of phases	3 AC	
Line voltage	380 500 V ±10 %	
Line frequency	47 63 Hz	
Rated current	12.20 A	
Output		
Number of phases	3 AC	
Rated voltage	400 V	
Rated power	5.50 kW	
Rated current (IN)	13.20 A	
Max. output current	26.40 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 200 Hz	
Output frequency for V/f control 1)	0 650 Hz	
Overload capability		

General tech. specifications		
Power factor λ	0.95	
Efficiency η	0.97	
Sound pressure level (1m)	74.5 dB	
Power loss	0.21 kW	

Average max. rated output current during a cycle time of 300 s; 1.5 × rated output current (i.e. 150% overload) for 60 s with a cycle time of 300 s; 2 × rated output current (i.e. 200 % overload) for 3 s with a cycle time of 300 s

1 0 0 0 1 1 0 3 3	0.21 KW	
Ambient conditions		
Cooling	demand-driven air cooling via integrated fan	
Cooling air requirement	0.018 m ³ /s (0.640 ft ³ /s)	
Installation altitude	1,000 m (3,280.84 ft)	
Ambient temperature		
Operation	-10 55 °C (14 131 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-40 70 °C (-40 158 °F)	
Relative humidity		
Max. operation	95 % at 40 °C (104 °F); RH, condensation not permitted	

Item no. :
Consignment no.:
Project :

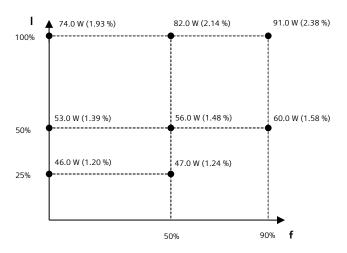
C	Connections	
Line side		
Version	HAN Q4/2 (connector)	
Conductor cross-section	4.00 6.00 mm ² (AWG 12 AWG 10)	
Motor end		
Version	HAN Q8 (socket)	
Conductor cross-section	4.00 mm ² (AWG 12)	
PE connection	On housing with M5 screw	
Conductor cross-section	10.00 16.00 mm² (AWG 8 AWG 6)	
Max. motor cable length		
Shielded	15 m (49.21 ft)	
Unshielded	30 m (98.43 ft)	
Mechanical data		
Degree of protection	IP65 / UL type 3	
Frame size	FSC	
Net weight	8.50 kg (18.74 lb)	
Dimensions		
Width	445.0 mm (17.52 in)	
Height	210.0 mm (8.27 in)	
Depth	220.0 mm (8.66 in)	
Standards		
Compliance with standards	UL 508C (UL list number E121068), CE RCM	
CE marking	Low-voltage directive 2006/95/EC	



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Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	60.40 %



The percentage values show the losses in relation to the rated apparent power of the converter.

The diagram shows the losses for the points (as per standard IEC61800-9-2) of the relative torque generating current (I) over the relative motor stator frequency (f). The values are valid for the basic version of the converter without options/components.

*calculated values

 $^{^{1)} {\}rm ln}$ firmware V4.7 and higher, due to legal requirements, the maximum output frequency is restricted to 550 Hz.