

Data sheet for SINAMICS G120D

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

Figure similar

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	

	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 mm² (AWG 12)			
PE connection	On housing with M5 screw			
Conductor cross-section	10.00 16.00 mm ² (AWG 8 AWG 6)			
Max. motor cable length				
Shielded	15 m (49.21 ft)			
Unshielded	30 m (98.43 ft)			
M	echanical 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)			

Item no. :

Consignment no. : Project :

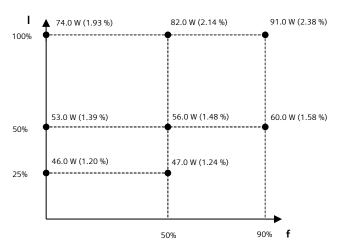
	Height	210.0 mm (8.27 in)
	Depth	220.0 mm (8.66 in)
Г	Stan	dards
(Compliance with standards	UL 508C (UL list number E121068), CE, RCM
(CE marking	Low-voltage directive 2006/95/EC



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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.