

SIEMENS

Data sheet for SINAMICS G120D

MLFB-Ordering data 6SL3525-0PE21-5AA1



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

Item no. :
Consignment no. :
Project :

Rated data		General tech. specifications	
Input		Power factor λ	0.95
Number of phases	3 AC	Efficiency η	0.97
Line voltage	380 ... 500 V ±10 %	Power loss	0.06 kW
Line frequency	47 ... 63 Hz		
Rated current	3.80 A	Ambient conditions	
Output		Cooling	Convection
Number of phases	3 AC	Cooling air requirement	0.005 m³/s
Rated voltage	400 V	Installation altitude	1000 m
Rated power	1.50 kW	Ambient temperature	
Rated current (IN)	4.10 A	Operation	-10 ... 55 °C (14 ... 131 °F)
Max. output current	8.20 A	Transport	-40 ... 70 °C (-40 ... 158 °F)
Pulse frequency	4 kHz	Storage	-40 ... 70 °C (-40 ... 158 °F)
Output frequency for vector control	0 ... 200 Hz	Relative humidity	
Output frequency for V/f control	0 ... 650 Hz	Max. operation	95 % at 40°C (104°F); RH, condensation not permitted
In firmware V4.7 and higher, due to legal requirements, the maximum output frequency is restricted to 550 Hz.			

Overload capability

High Overload (HO)

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

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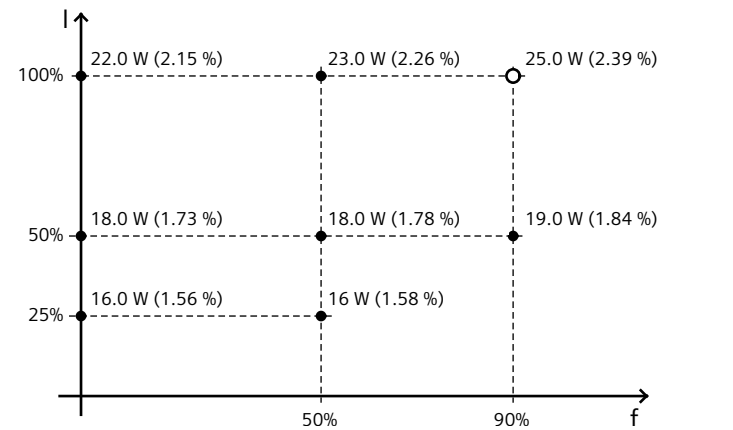
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Figure similar

Mechanical data		Connections	
Degree of protection	IP65 / UL type 3	Line side	
Size	FSA	Version	HAN Q4/2 (connector)
Net weight	5.70 kg	Conductor cross-section	1.50 ... 6.00 mm²
Width	445.0 mm	Motor end	
Height	210.0 mm	Version	HAN Q8 (socket)
Depth	110.0 mm	Conductor cross-section	1.00 ... 4.00 mm²
Converter losses to EN 50598-2*		PE connection	On housing with M5 screw

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-70.89 %



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 EN 50598) 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.

*converted values

Connections	
Line side	
Version	HAN Q4/2 (connector)
Conductor cross-section	1.50 ... 6.00 mm²
Motor end	
Version	HAN Q8 (socket)
Conductor cross-section	1.00 ... 4.00 mm²
PE connection	On housing with M5 screw
Conductor cross-section	10.00 ... 16.00 mm²
Max. motor cable length	
Shielded	15 m
Unshielded	30 m

Standards	
Compliance with standards	UL 508C (UL list number E121068), CE, RCM
CE marking	Low-voltage directive 2006/95/EC