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Data sheet for SINAMICS G120D



Figure similar

Article No. : 6SL3525-0PE27-5AA1

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

Item no. :
Consignment no. :
Project :

Rated data

Input	
Number of phases	3 AC
Line voltage	380 ... 500 V ±10 %
Line frequency	47 ... 63 Hz
Rated current	17.70 A
Output	
Number of phases	3 AC
Rated voltage	400 V
Rated power	7.50 kW
Rated current (IN)	19.00 A
Max. output current	38.00 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	
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	

General tech. specifications

Power factor λ	0.95
Efficiency η	0.97
Sound pressure level (1m)	74.5 dB
Power loss	0.29 kW

Ambient conditions

Cooling	demand-driven air cooling via integrated fan
Cooling air requirement	0.025 m³/s (0.880 ft³/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 mm² (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 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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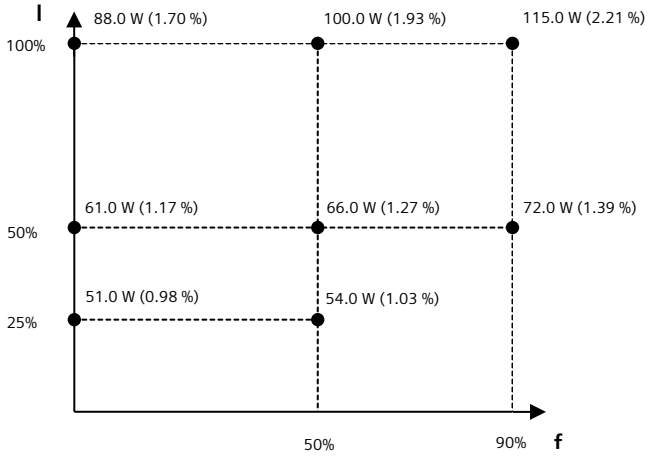
Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	62.16 %



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] In firmware V4.7 and higher, due to legal requirements, the maximum output frequency is restricted to 550 Hz.