SIEMENS Data sheet for SINAMICS G120X

Article No. :

6SL3220-2YE32-0AF0

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

Item no. :

Rated data

nut		
put Number of phases	3 AC	
Line voltage	380 480 V +10 % -20 %	
Line frequency	47 63 Hz	
Rated voltage	400V IEC	480V NEC
Rated current (LO)	42.00 A	37.00 A
Rated current (HO)	38.00 A	35.00 A
utput		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC
Rated power (LO)	22.00 kW	30.00 hp
Rated power (HO)	18.50 kW	25.00 hp
Rated current (LO)	45.00 A	40.00 A
Rated current (HO)	38.00 A	34.00 A
Rated current (IN)	47.00 A	
Max. output current	61.00 A	
ulse frequency	4 kHz	
utput frequency for vector control	0 200 Hz	
utput frequency for V/f control	0 550 Hz	

Consignment no. : Project :

Ambient conditions		
Standard board coating type	Class 3C2, according to IEC 60721-3- 2002	
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.055 m³/s (1.942 ft³/s)	
Installation altitude	1,000 m (3,280.84 ft)	
Ambient temperature		
Operation	-20 45 °C (-4 113 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-25 55 °C (-13 131 °F)	
Relative humidity		
Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
Mecha	nical data	
Degree of protection	IP20 / UL open type	
Size	FSD	
Net weight	18 kg (39.68 lb)	
Dimensions		
Width	200 mm (7.87 in)	
Height	472 mm (18.58 in)	
Depth	248 mm (9.76 in)	

Overload capability

Low Overload (LO)

110% base load current IL for 60 s in a 300 s cycle time

High Overload (HO)

150% x base load current IH for 60 s within a 600 s cycle time

General tech. specifications		
Power factor λ	0.90 0.95	
Offset factor cos φ	0.99	
Efficiency η	0.97	
Sound pressure level (1m)	70 dB	
Power loss ₃₎	0.732 kW	
Filter class (integrated)	RFI suppression filter for Category C2	
EMC category (with accessories)	Category C2	



Figure simila

E 120X sheet for SINAMICS

Article No. :

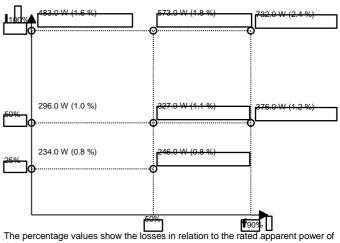
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[′] outputs
0
6 11 V
5 V
15 mA
DC 30 V, 5.0 A
2000 4, 0.07
2 (Differential input)
10 bit
4 V
1.6 V
1 (Non-isolated output)
sors that can be connected: PTC, KTY
ntrol techniques
Yes
Yes
100
Yes
Yes
Yes Yes
Yes Yes No
Yes Yes No Yes

Communication

PROFINET, EtherNet/IF

Connections		
Signal cable		
Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Line side		
Version	screw-type terminal	
Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)	
Motor end		
Version	Screw-type terminals	
Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)	
DC link (for braking resistor)		
PE connection	Screw-type terminals	
Max. motor cable length		
Shielded	150 m (492.13 ft)	
Converter loss	i es to IEC61800-9-2*	
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	48.2 %	



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.

*converted values

Standards	
Compliance with standards	UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH
CE marking	EMC Directive 2004/108/EC, Low- Voltage Directive 2006/95/EC

 $\ensuremath{^{(1)}}\xspace$ The output current and HP ratings are valid for the voltage range 440V-480V

3) Typical value. More information can be found in the element group "Converter losses to IEC 61800-9-2" in this datasheet.

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Screen		• • • • • • • • • • • • • • • • • • • •	Ambient conditions	
Display design	LCD, monochrome	Ambient temperature		
		Operation	0 50 °C (32 122 °F)	
	Mechanical data	Storage	-40 70 °C (-40 158 °F)	
Degree of protection	IP55 / UL type 12	Transport	-40 70 °C (-40 158 °F)	
Net weight	0.140 kg (0.31 lb)			
Dimensions		Relative humidity at 25°C d	luring	
Width	70.00 mm (2.76 in)	Max. operation	95 %	
Height	106.85 mm (4.21 in)		Approvals	
Depth	19.60 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM	

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.