SIEMENS Data sheet for SINAMICS G120X

Article No. :

6SL3220-3YE32-0UF0

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

Item no. :

Rated data

Input		
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
Jutput		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC1)
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	
Pulse frequency	4 kHz	
Dutput frequency for vector control	0 200 Hz	
Dutput frequency for V/f control	0 550 Hz	

Consignment no. : Project :

Amb	ient conditions
Standard board coating type	Class 3C2, according to IEC 60721-3-3: 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
Me	chanical data
Degree of protection	IP20 / UL open type
Size	FSD
Net weight	17 kg (37.48 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 $\cos \phi$	0.99	
Efficiency η	0.97	
Sound pressure level (1m)	70 dB	
Power loss ₃₎	0.732 kW	
Filter class (integrated)	Unfiltered	
EMC category (with accessories)	without	



Fig

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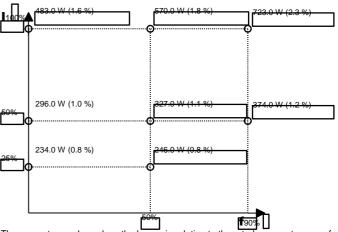
IN	puts / outputs
Standard digital inputs	
Number	6
Switching level: $0 \rightarrow 1$	11 V
Switching level: $1 \rightarrow 0$	5 V
Max. inrush current	15 mA
ail-safe digital inputs	
Number Digital outputs	
Number as relay changeover co 2Output (resistive load)	ntact
	DC 30 V, 5.0 A
Number as transistor	
Analog / digital inputs	
Number	2 (Differential input)
Resolution	10 bit
Switching threshold as digital i	input
0 → 1	- 4 V
1 → 0	1.6 V
Analog outputs	
Number	1 (Non-isolated output)
PTC/ KTY interface	. (
-	ut, sensors that can be connected: PTC, KTY ℃
Closed-lo	op control techniques
//f linear / square-law / parameteri	zable Yes
//f with flux current control (FCC)	Yes
	Yes
//f ECO linear / square-law	
//f ECO linear / square-law	Yes
V/f with flux current control (FCC) V/f ECO linear / square-law Sensorless vector control Vector control, with sensor Encoderless torque control	Yes Yes

Communication

PROFINET, EtherNet/IP

	onnections
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	200 m (656.17 ft)
Unshielded	300 m (984.25 ft)
Converter la	osses to IEC61800-9-2*
Efficiency class	IE2
Comparison with the reference	

Comparison with the reference 47.6 %



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.

*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

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1) 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.

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

Download from : https://automatyka-sklep.eu/falownik-sinamics-g120x-6sl3220-3ye32-0uf0-siemens-3-fazowy-o-mocy-22-kw

SIEMENS Data sheet for SINAMICS G120X

Article No. :

6SL3220-3YE32-0UF0

Oneveter nevels	Intelligent Operator Danel (IOD 2)
operator panel:	Intelligent Operator Panel (IOP-2)

	Screen		Ambient conditions
Display design	LCD color	Ambient temperature	
Screen resolution	320 x 240 Pixel	Operation	0 50 °C (32 122 °F)
			55 °C only with door mounting kit
	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	0.134 kg (0.30 lb)	Relative humidity at 25°C	durina
Dimensions		Max. operation	95 %
Width	70.00 mm (2.76 in)		
Height	106.85 mm (4.21 in)		Approvals
Depth	19.65 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM