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Data sheet for SINAMICS G120X

Article No. :

6SL3230-3YE36-0UF0



Figure similar

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

Rate	ed data	
Input		
Number of phases	3 AC	
Line voltage	380 480 V +10	0 % -20 %
Line frequency	47 63 Hz	
Rated voltage	400V IEC	480V NEC
Rated current (LO)	70.00 A	61.00 A
Rated current (HO)	62.00 A	54.00 A
Output		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC ¹⁾
Rated power (LO)	37.00 kW	50.00 hp
Rated power (HO)	30.00 kW	40.00 hp
Rated current (LO)	75.00 A	65.00 A
Rated current (HO)	60.00 A	52.00 A
Rated current (IN)	77.00 A	
Max. output current	102.00 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 200 Hz	
Output frequency for V/f control	0 550 Hz	
Over the end over a billion		

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 tec	h. 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⁾	1.110 kW	
Filter class (integrated)	Unfiltered	
EMC category (with accessories)	without	
Safety function "Safe Torque Off"	without	
Communication		

Communication

PROFINET, EtherNet/IP

ltem no. : Consignment no. : Project :

6 11 V 5 V
- 11 V
5 V
15 mA
1
2
DC 30 V, 5.0 A
0
2 (Differential input)
10 bit
4 V
1.6 V
1 (Non-isolated output)
1

Closed-loop control techniques		
V/f linear / square-law / parameterizable	Yes	
V/f with flux current control (FCC)	Yes	
V/f ECO linear / square-law	Yes	
Sensorless vector control	Yes	
Vector control, with sensor	No	
Encoderless torque control	No	
Torque control, with encoder	No	

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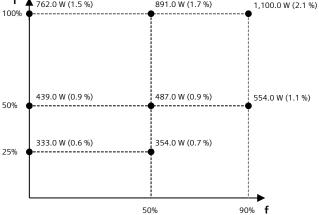
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Ambient	conditions
Standard board coating type	Class 3C3, according to IEC 60721-3-3: 2002
Cooling	Air cooling using an integrated fan
Cooling air requirement	0.055 m³/s (1.942 ft³/s)
Installation altitude	1,000 m (3,280.84 ft)
Ambient temperature	
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
Conn	ections
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)

Me	echanical data	
Degree of protection	IP20 / UL open	type
Frame size	FSD	
Net weight	19 kg (41.89 lb))
Dimensions		
Width	200 mm (7.87	in)
Height	472 mm (18.5	8 in)
Depth	248 mm (9.76	in)
	Standards	
Compliance with standards	UL, cUL, CE, C- SEMI F47, REA	Tick (RCM), EAC, KCC, CH
CE marking	EMC Directive 2 Voltage Directi	2004/108/EC, Low- ve 2006/95/EC
Converter le	osses to IEC61800-	9-2*
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	44.4 %	
I ↑762.0 W (1.5 %)	891.0 W (1.7 %)	1,100.0 W (2.1 %)
439.0 W (0.9 %)	487.0 W (0.9 %)	554.0 W (1.1 %)
50% •		•
333.0 W (0.6 %)	354.0 W (0.7 %)	
25%		



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

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.

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	Operator panel: Intellige	
	Screen	
Display design	LCD color	
Screen resolution	320 x 240 Pixel	
	Mechanical data	
Degree of protection	IP55 / UL type 12	
Net weight	0.134 kg (0.30 lb)	
Dimensions		
Width	70.00 mm (2.76 in)	
Height	106.85 mm (4.21 in)	
Depth	19.65 mm (0.77 in)	

An	Ambient conditions		
Ambient temperature			
Operation	0 50 °C (32 122 °F)		
	55 °C only with door installation kit		
Storage	-40 70 °C (-40 158 °F)		
Transport	-40 70 °C (-40 158 °F)		
Relative humidity at 25°C duri	ng		
Max. operation	95 %		
	Approvals		