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Data sheet for SINAMICS G120X

Article No. :

6SL3230-3YC28-0UF0



Figure similar

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

Rated data			
Input			
٢	Number of phases	3 AC	
L	ine voltage	200 240 V +10 %	b -20 %
L	ine frequency	47 63 Hz	
F	Rated voltage	200V IEC	240V NEC
	Rated current (LO)	51.00 A	51.00 A
	Rated current (HO)	40.00 A	40.00 A
Output			
٢	Number of phases	3 AC	
F	Rated voltage	200V IEC	240V NEC ¹⁾
	Rated power (LO)	15.00 kW	20.00 hp
	Rated power (HO)	11.00 kW	15.00 hp
	Rated current (LO)	54.00 A	54.00 A
	Rated current (HO)	42.00 A	42.00 A
	Rated current (IN)	56.00 A	
	Max. output current	73.00 A	
Pul	se frequency	4 kHz	
Ou	tput frequency for vector control	0 200 Hz	
Ou	tput frequency for V/f control	0 550 Hz	
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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)	0.626 kW		
Filter class (integrated)	Unfiltered		
EMC category (with accessories)	without		
Safety function "Safe Torque Off"	without SIRIUS device (e.g. via S7- 1500F)		
Communication			

Communication

PROFINET, EtherNet/IP

ltem no. : Consignment no. : Project :

Inputs / 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		
Fail-safe digital inputs			
Number	1		
Digital outputs			
Number as relay changeover contact	2		
Output (resistive load)	DC 30 V, 5.0 A		
Number as transistor	0		
Analog / digital inputs			
Number	2 (Differential input)		
Resolution	10 bit		
Switching threshold as digital input			
0 → 1	4 V		
$1 \rightarrow 0$	1.6 V		
Analog outputs			
Number	1 (Non-isolated output)		
PTC/ KTY interface			
1 motor temperature sensor input, sensors that can be connected PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\text{C}$			

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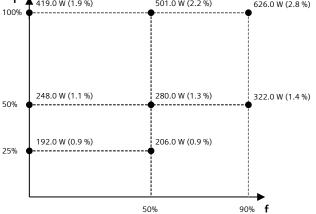
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Ambient conditions		
Standard board coating type	Class 3C3, according to IEC 60721-3-3: 2002	
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.055 m³/s (1.942 ft³/s)	
Installation altitude	1,000 m (3,280.84 ft)	
Ambient temperature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

M	echanical data	
Degree of protection	IP20 / UL open	type
Frame size	FSD	
Net weight	16.6 kg (36.60) 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		2004/108/EC, Low- ive 2006/95/EC
Converter	osses to IEC61800-	9-2*
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	55.2 %	
I ▲ 419.0 W (1.9 %)	501.0 W (2.2 %)	626.0 W (2.8 %)
100% •		•
248.0 W (1.1 %)	280.0 W (1.3 %)	322.0 W (1.4 %)
	Ť	•



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 220V-240V

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	: Intelligen
	Screen	
Display design	LCD color	
Screen resolution	320 x 240 Pixel	
ľ	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)	

t Operator Panel (IOP-2)	
An	nbient 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
Certificate of suitability	CE, cULus, EAC, KCC, RCM

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