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Data sheet for SINAMICS G120X

Article No. :

6SL3230-3YE26-0UF0



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 %	% -20 %
Line frequency	47 63 Hz	
Rated voltage	400V IEC	480V NEC
Rated current (LO)	24.50 A	21.30 A
Rated current (HO)	18.25 A	14.00 A
Output		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC 1)
Rated power (LO)	11.00 kW	15.00 hp
Rated power (HO)	7.50 kW	10.00 hp
Rated current (LO)	26.00 A	21.00 A
Rated current (HO)	18.00 A	14.00 A
Rated current (IN)	27.00 A	
Max. output current	35.00 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 200 Hz	
Output frequency for V/f control	0 550 Hz	
Over the extreme billing		

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	0.70 0.85	
Offset factor $\cos \phi$	0.96	
Efficiency η	0.98	
Sound pressure level (1m)	67 dB	
Power loss ³⁾	0.344 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 :

Switching level: $1 \rightarrow 0$ 5	5 1 V 5 V 5 mA		
Switching level: 0 → 1 1 Switching level: 1 → 0 5 Max. inrush current 1 Fail-safe digital inputs 7	1 V 5 V		
Switching level: 1 → 0 5 Max. inrush current 1 Fail-safe digital inputs 1	S V		
Max. inrush current 1 Fail-safe digital inputs			
Fail-safe digital inputs	5 mA		
Number 1			
Digital outputs			
Number as relay changeover contact 2			
Output (resistive load) D	DC 30 V, 5.0 A		
Number as transistor 0	I		
Analog / digital inputs			
Number 2	? (Differential input)		
Resolution 1	0 bit		
Switching threshold as digital input			
0 → 1 4	٧		
1 → 0 1	.6 V		
Analog outputs			
Number 1	(Non-isolated output)		
PTC/ KTY interface	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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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	0.018 m³/s (0.653 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	
Conr	nections	
Signal cable		
Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Line side		
Version	screw-type terminal	
Conductor cross-section	1.50 16.00 mm² (AWG 16 AWG 6)	
Motor end		
Version	Screw-type terminals	
Conductor cross-section	1.50 16.00 mm² (AWG 16 AWG 6)	
DC link (for braking resistor)		
PE connection	On housing with M4 screw	
Max. motor cable length		
Shielded	150 m (492.13 ft)	
Unshielded	300 m (984.25 ft)	

Ме	chanical data	
Degree of protection	IP20 / UL open type	
Frame size	FSC	
Net weight	7.14 kg (15.74 lb)	
Dimensions		
Width	140 mm (5.51 in)	
Height	295 mm (11.61 in)	
Depth	218 mm (8.58 in)	
	Standards	
Compliance with standards	UL, cUL, CE, C-Tick (RCM), EAC, KC SEMI F47, REACH	C,
CE marking	EMC Directive 2004/108/EC, Low- Voltage Directive 2006/95/EC	
Converter lo	osses to IEC61800-9-2*	
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	36.4 %	
l ▲ 229.0 W (1.3 %) 100% ●	271.0 W (1.5 %) 340.0 W (1.9 %)	
148.0 W (0.8 %)	164.0 W (0.9 %) 187.0 W (1.0 %)	
JU 70	•	
120.0 W (0.7 %)	127.0 W (0.7 %)	
25% •	•	

The percentage values show the losses in relation to the rated apparent power of the converter.

90% **f**

50%

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 pane	el: Intelligen
	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)	

nt Operator Panel (IOP-2)		
Ambient conditions Ambient temperature		
	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 durin	ng	
Max. operation	95 %	
	Approvals	
Certificate of suitability	CE, cULus, EAC, KCC, RCM	