

Data sheet for SINAMICS G120X

Article No.: 6SL3230-3YE40-0UB0

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

	Rated data		
In	out		
	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)	104.00 A	91.00 A
	Rated current (HO)	94.00 A	80.00 A
Οι	tput		
	Number of phases	3 AC	
	Rated voltage	400V IEC	480V NEC 1)
	Rated power (LO)	55.00 kW	75.00 hp
	Rated power (HO)	45.00 kW	60.00 hp
	Rated current (LO)	110.00 A	96.00 A
	Rated current (HO)	90.00 A	77.00 A
	Rated current (IN)	113.00 A	
	Max. output current	149.00 A	
Pu	lse frequency	4 kHz	
Ου	tput frequency for vector control	0 200 Hz	
Ou	tput frequency for V/f control 0 550 Hz		
Ov	erload 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.	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⁾	1.730 kW	
Filter class (integrated)	Unfiltered	
EMC category (with accessories)	without	
Safety function "Safe Torque Off"	without SIRIUS device (e.g. via S7- 1500F)	

C	nmui	-:	4:
Con	ımuı	nica	tion

Communication

USS, Modbus RTU, BACnet MS/TP



item no. :
Consignment no.:
Project :

Inputs /	outputs
Standard digital inputs	
Number	6
Switching level: 0 → 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 → 0	1.6 V
Analog outputs	
Number	1 (Non-isolated output)
PTC/ KTY interface	
1 motor temperature sensor input, ser Thermo-Click, accuracy ±5 °C	nsors that can be connected PTC, KTY and
Closed-loop co	ntrol 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



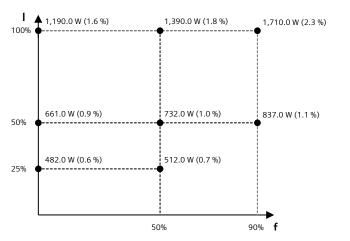
Data sheet for SINAMICS G120X

Article No.: 6SL3230-3YE40-0UB0

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	0.083 m ³ /s (2.931 ft ³ /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 mm ² (AWG 24 AWG 16)	
Line side		
Version	screw-type terminal	
Conductor cross-section	25.00 70.00 mm ² (AWG 6 AWG 3/0)	
Motor end		
Version	Screw-type terminals	
Conductor cross-section	25.00 70.00 mm² (AWG 6 AWG 3/0)	
DC link (for braking resistor)		
PE connection	Screw-type terminals	
Max. motor cable length		
Shielded	200 m (656.17 ft)	

Mechanical data		
Degree of protection	IP20 / UL open type	
Frame size	FSE	
Net weight	27 kg (59.52 lb)	
Dimensions	ns	
Width	275 mm (10.83 in)	
Height	551 mm (21.69 in)	
Depth	248 mm (9.76 in)	
Standards		
Compliance with standards	with standards UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH	
CE marking	king EMC Directive 2004/108/EC, Low- Voltage Directive 2006/95/EC	





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.



Data sheet for SINAMICS G120X

Article No.: 6SL3230-3YE40-0UB0

	Operator panel: I	ntelligent Operator Panel (IOP-2
	Screen	
Display design	LCD color	Ambient temperature
Screen resolution	320 x 240 Pixel	Operation
	Mechanical data	Storage
Degree of protection	IP55 / UL type 12	Transport
Net weight	0.134 kg (0.30 lb)	Relative humidity at 25
Dimensions		Max. operation
Width	70.00 mm (2.76 in)	maxi operation
Height	106.85 mm (4.21 in)	
Depth	19.65 mm (0.77 in)	Certificate of suitability

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 during		
Max. operation	95 %	
Approvals		
Certificate of suitability CE, cULus, EAC, KCC, RCM		

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Siemens:

6SL32303YE400UB0