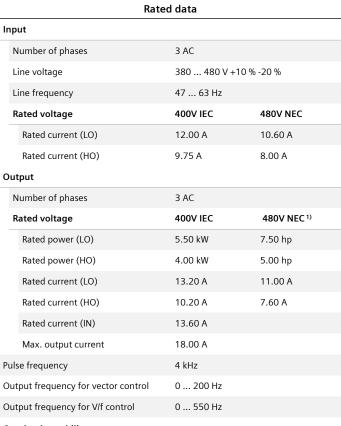


Data sheet for SINAMICS G120X

Article No.: 6SL3230-2YE22-0AB0

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



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

0.70 0.85
0.96
0.97
63 dB
0.191 kW
RFI suppression filter for Category C2
Category C2
without SIRIUS device (e.g. via S7- 1500F)

Communication

Communication USS, Modbus RTU, BACnet MS/TP



Item 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 → 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	



Data sheet for SINAMICS G120X

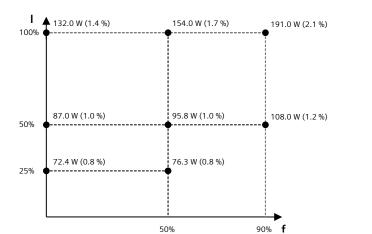
Article No.: 6SL3230-2YE22-0AB0

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	0.009 m³/s (0.325 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		
Connections			
Signal cable			
Conductor cross-section	0.15 1.50 mm ² (AWG 24 AWG 16)		
Line side			
Version	screw-type terminal		
Conductor cross-section	1.50 6.00 mm ² (AWG 16 AWG 10)		
Motor end			
Version	Screw-type terminals		
Conductor cross-section	1.50 6.00 mm ² (AWG 16 AWG 10)		
DC link (for braking resistor)			
DC link (for braking resistor) PE connection	On housing with M4 screw		
	On housing with M4 screw		
PE connection	On housing with M4 screw 150 m (492.13 ft)		

Mechanical data			
Degree of protection	IP20 / UL open type		
Frame size	FSB		
Net weight	6.16 kg (13.58 lb)		
Dimensions			
Width	100 mm (3.94 in)		
Height	275 mm (10.83 in)		
Depth	218 mm (8.58 in)		
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		
Converter losses to IEC61800-9-2*			

IE2

35.7 %



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

Efficiency class

Comparison with the reference converter (90% / 100%)

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.: 6SL3230-2YE22-0AB0

	Operator pane	l: Basic Operator Panel (BOP-2)
	Screen	
Display design	LCD, monochrome	Ambient temperature
	Marahani alaka	Operation
	Mechanical data	Storage
Degree of protection	IP55 / UL type 12	
Net weight	0.140 kg (0.31 lb)	Transport
Dimensions	5	Relative humidity at 25
Difficusions		Max. operation
Width	70.00 mm (2.76 in)	
Height	106.85 mm (4.21 in)	
Depth	19.60 mm (0.77 in)	Certificate of suitability

Ambient conditions				
Ambient temperature				
Operation	0 50 °C (32 122 °F)			
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			

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