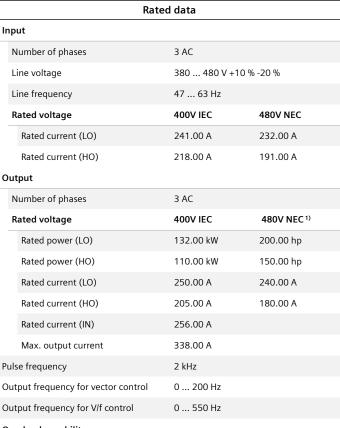


Data sheet for SINAMICS G120X

Article No.: 6SL3230-1YE48-0UB0

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

General tech. specifications			
0.90 0.95			
0.99			
0.98			
72 dB			
3.160 kW			
Unfiltered			
without			
without SIRIUS device (e.g. via S7- 1500F)			

Communication

Communication USS, Modbus RTU, BACnet MS/TP



Item no. : Consignment no. : Project :

·	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, 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	



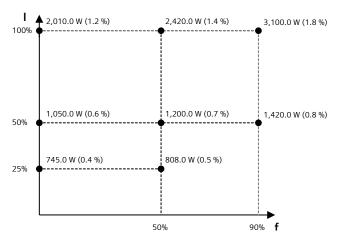
Data sheet for SINAMICS G120X

Article No.: 6SL3230-1YE48-0UB0

Class 3C3, according to IEC 60721-3-3: 2002				
Air cooling using an integrated for				
Air cooling using an integrated fan				
0.153 m³/s (5.403 ft³/s)				
1,000 m (3,280.84 ft)				
-20 45 °C (-4 113 °F)				
-40 70 °C (-40 158 °F)				
-25 55 °C (-13 131 °F)				
95 % At 40 °C (104 °F), condensation and icing not permissible				
ections				
0.15 1.50 mm ² (AWG 24 AWG 16)				
Line side				
M10 screw				
35.00 2 x 120.00 mm ² (AWG 1 AWG 2 x 4/0)				
Motor end				
M10 screw				
35.00 2 x 120.00 mm ² (AWG 1 AWG 2 x 4/0)				
DC link (for braking resistor)				
M10 screw				
300 m (984.25 ft)				

Mechanical data				
D	egree of protection	IP20 / UL open type		
F	rame size	FSF		
Ν	let weight	67 kg (147.71 lb)		
Dimensions				
	Width	305 mm (12.01 in)		
	Height	709 mm (27.91 in)		
	Depth	369 mm (14.53 in)		
Standards				
C	ompliance 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*		
Efficiency class	IE2	
Comparison with the reference converter (90% / 100%)	43.8 %	



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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