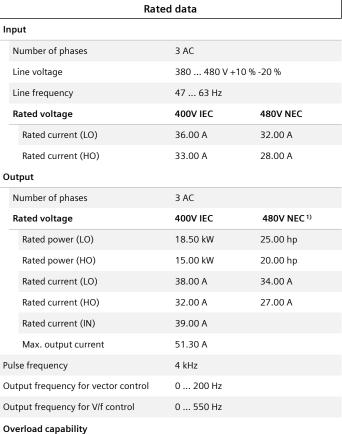


Data sheet for SINAMICS G120X

6SL3220-1YE30-0UP0 Article No.:

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



Overload	capability
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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)	0.598 kW	
Filter class (integrated)	Unfiltered	
EMC category (with accessories)	without	
Safety function "Safe Torque Off"	without	
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_		
Commu	ınıca	tion
COIIIII	ııııca	LIVII

PROFIBUS DP Communication



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 ±5 °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

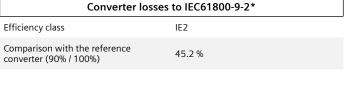


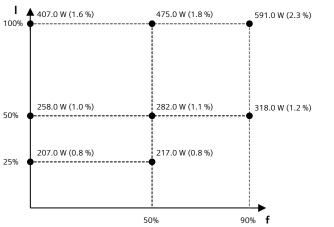
Data sheet for SINAMICS G120X

Article No.: 6SL3220-1YE30-0UP0

Class 3C2, according to IEC 60721-3-3: 2002 Air cooling using an integrated fan		
Air cooling using an integrated fan		
0.055 m³/s (1.942 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)		
screw-type terminal		
10.00 35.00 mm ² (AWG 8 AWG 2)		
Screw-type terminals		
10.00 35.00 mm ² (AWG 8 AWG 2)		
Screw-type terminals		
Max. motor cable length		
200 m (656.17 ft)		

Mechanical data				
Degree of protection		IP20 / UL open type		
Frame size		FSD		
Net weight		17 kg (37.48 lb)		
Dimensions				
	Width	200 mm (7.87 in)		
	Height	472 mm (18.58 in)		
	Depth	248 mm (9.76 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		





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.