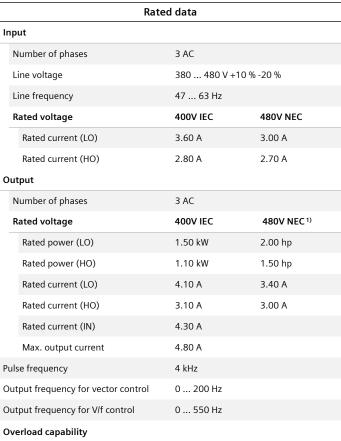


### **Data sheet for SINAMICS G120X**

6SL3230-2YE14-0AF0 Article No.:

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



Low Overload (LO)

110% base load current IL for 60 s in a 300 s cycle time

High Overload (HO)

Communication

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	0.97		
Sound pressure level (1m)	55 dB		
Power loss 3)	0.072 kW		
Filter class (integrated)	RFI suppression filter for Category C2		
EMC category (with accessories)	Category C2		
Safety function "Safe Torque Off" without SIRIUS device (e.g. via S7-1500F)			
Communication			



item no	
Consignment no.	:
Project :	

Inputs / outputs Standard digital inputs		
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 an	
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	
	No	

PROFINET, EtherNet/IP



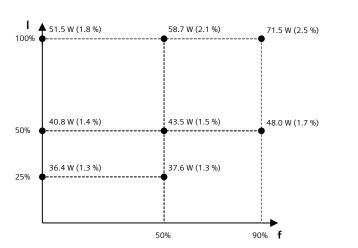
### **Data sheet for SINAMICS G120X**

Article No.: 6SL3230-2YE14-0AF0

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	0.005 m <sup>3</sup> /s (0.177 ft <sup>3</sup> /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 <sup>2</sup> (AWG 24 AWG 16)
Line side	
Version	screw-type terminal
Conductor cross-section	1.50 2.50 mm <sup>2</sup> (AWG 16 AWG 14)
Materiand	
Motor end	
Version Version	Screw-type terminals
	Screw-type terminals 1.50 2.50 mm² (AWG 16 AWG 14)
Version	1.50 2.50 mm²
Version  Conductor cross-section	1.50 2.50 mm²
Version  Conductor cross-section  DC link (for braking resistor)	1.50 2.50 mm² (AWG 16 AWG 14)
Version  Conductor cross-section  DC link (for braking resistor)  PE connection	1.50 2.50 mm² (AWG 16 AWG 14)

Mechanical data		
Degree of protection	IP20 / UL open type	
Frame size	FSA	
Net weight	3.4 kg (7.50 lb)	
Dimensions		
Width	73 mm (2.87 in)	
Height	232 mm (9.13 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*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	35.0 %



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

 $<sup>^{1)}</sup>$ The output current and HP ratings are valid for the voltage range 440V-480V

<sup>&</sup>lt;sup>3)</sup>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.: 6SL3230-2YE14-0AF0

	Operator pane	el: Basic Operator Panel (BOP-2)
	Screen	
Display design	LCD, monochrome	Ambient temperature
	Mechanical data	Operation
Degree of protection	IP55 / UL type 12	Storage
Net weight	0.140 kg (0.31 lb)	Transport  Relative humidity at 25
Dimensions		Max. operation
Width	70.00 mm (2.76 in)	wax. operation
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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