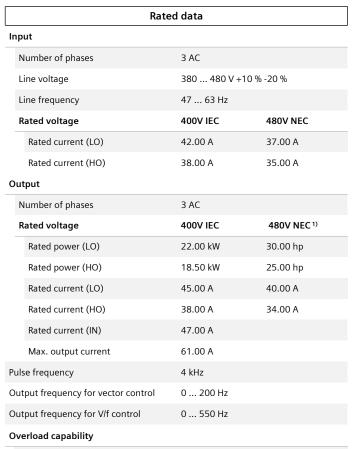


## **Data sheet for SINAMICS G120X**

Article No.: 6SL3220-3YE32-0UB0

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)

150% x base load current IH for 60 s within a 600 s cycle time

General tech. specifications		
Power factor $\lambda$	0.90 0.95	
Offset factor $\cos\phi$	0.99	
Efficiency η	0.97	
Sound pressure level (1m)	70 dB	
Power loss 3)	0.732 kW	
Filter class (integrated)	Unfiltered	
EMC category (with accessories)	without	
Safety function "Safe Torque Off"	without SIRIUS device (e.g. via S7- 1500F)	

Communication

Communication USS, Modbus RTU, BACnet MS/TP



Item no. : Consignment no. : Project :

		Figi
no.:		

Inputs / outputs Standard digital inputs		
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		
	asors that can be connected PTC KTV an	
1 motor temperature sensor input, ser Thermo-Click, accuracy ±5 °C	isors that can be connected it ic, Kiri an	
Thermo-Click, accuracy ±5 ℃	ntrol techniques	
Thermo-Click, accuracy ±5 ℃		
Thermo-Click, accuracy ±5 °C  Closed-loop con	ntrol techniques	
Thermo-Click, accuracy ±5 °C  Closed-loop cou  V/f linear / square-law / parameterizable	ntrol techniques Yes	
Thermo-Click, accuracy ±5 °C  Closed-loop cou  V/f linear / square-law / parameterizable  V/f with flux current control (FCC)	ntrol techniques  Yes  Yes	
Thermo-Click, accuracy ±5 °C  Closed-loop cou  V/f linear / square-law / parameterizable  V/f with flux current control (FCC)  V/f ECO linear / square-law	res Yes Yes	
Thermo-Click, accuracy ±5 °C  Closed-loop cou  V/f linear / square-law / parameterizable  V/f with flux current control (FCC)  V/f ECO linear / square-law  Sensorless vector control	Yes Yes Yes Yes Yes	



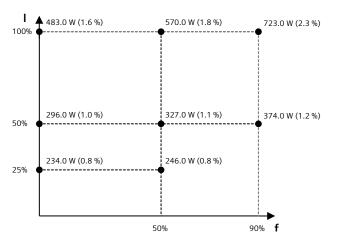
## **Data sheet for SINAMICS G120X**

Article No.: 6SL3220-3YE32-0UB0

Ambient conditions		
Standard board coating type	Class 3C2, according to IEC 60721-3-3: 2002	
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.055 m <sup>3</sup> /s (1.942 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	
Conn	ections	
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	10.00 35.00 mm² (AWG 8 AWG 2)	
Motor end		
Version	Screw-type terminals	
Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)	
DC link (for braking resistor)		
PE connection	Screw-type terminals	
Max. motor cable length		
Shielded	200 m (656.17 ft)	
Jillelueu	200 111 (050117 11)	

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)	
Stan	dards	
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

 $<sup>^{1)}\</sup>mbox{The output current}$  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.: 6SL3220-3YE32-0UB0

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

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