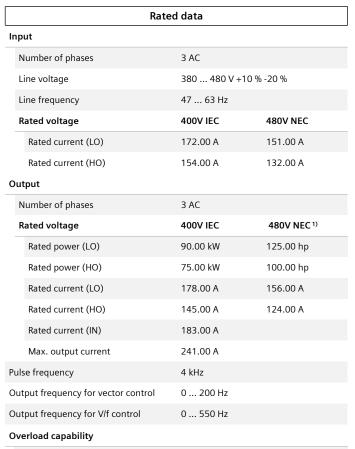


Data sheet for SINAMICS G120X

Article No.: 6SL3230-2YE44-0UF0

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

0.90 0.95
2.00
0.99
0.97
72 dB
2.610 kW
Jnfiltered
without
without SIRIUS device (e.g. via S7- 1500F)
). 7: 2. V

Communication

and of surrous

Item no. : Consignment no. : Project :

_				
L	Inputs / outputs			
9	Standard digital inputs			
	Number	6		
	Switching level: $0 \rightarrow 1$	11 V		
	Switching level: $1 \rightarrow 0$	5 V		
	Max. inrush current	15 mA		
F	ail-safe digital inputs			
	Number	1		
[Digital outputs	al outputs		
	Number as relay changeover contact	2		
	Output (resistive load)	DC 30 V, 5.0 A		
	Number as transistor	0		
A	Analog / digital inputs			
	Number	2 (Differential input)		
	Resolution	10 bit		
5	Switching threshold as digital input			
	0 → 1	4 V		
	1 → 0	1.6 V		

PTC/ KTY interface

Analog outputs

Number

1 motor temperature sensor input, sensors that can be connected PTC, KTY and Thermo-Click, accuracy $\pm 5\,^{\circ}\text{C}$

1 (Non-isolated output)

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		

PROFINET, EtherNet/IP



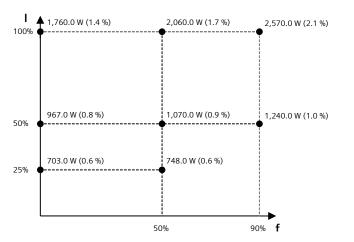
Data sheet for SINAMICS G120X

Article No.: 6SL3230-2YE44-0UF0

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	0.153 m ³ /s (5.403 ft ³ /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	
Co	onnections	
Signal cable		
Conductor cross-section	0.15 1.50 mm ² (AWG 24 AWG 16)	
Line side		
Version	M10 screw	
Conductor cross-section	35.00 2 x 120.00 mm ² (AWG 1 AWG 2 x 4/0)	
Motor end		
Version	M10 screw	
Conductor cross-section	35.00 2 x 120.00 mm ² (AWG 1 AWG 2 x 4/0)	
DC link (for braking resistor)		
PE connection	M10 screw	
Max. motor cable length		
Shielded	300 m (984.25 ft)	
Unshielded	450 m (1,476.38 ft)	

Mechanical data			
Degree of protection	IP20 / UL open type		
Frame size	FSF		
Net weight	61 kg (134.48 lb)		
Dimensions			
Width	305 mm (12.01 in)		
Height	709 mm (27.91 in)		
Depth	369 mm (14.53 in)		
Sta	andards		
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%)	50.6 %	



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.



Data sheet for SINAMICS G120X

Article No.: 6SL3230-2YE44-0UF0

	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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6SL32302YE440UF0