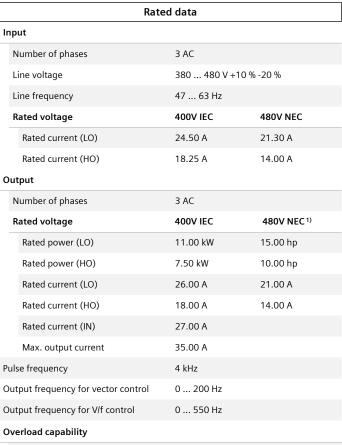


Data sheet for SINAMICS G120X

Article No.: 6SL3220-1YE26-0AP0

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

0.70 0.05
0.70 0.85
0.96
0.98
67 dB
0.344 kW
RFI suppression filter for Category C2
Category C2
without SIRIUS device (e.g. via S7- 1500F)

Communication



Item no. : Consignment no. : Project :

Inputs / outputs		
tandard 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/ KTV interface		

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	

PROFIBUS DP



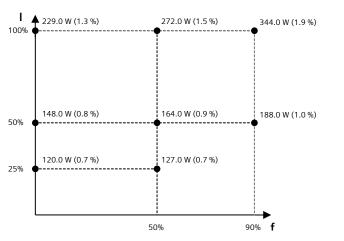
Data sheet for SINAMICS G120X

Article No.: 6SL3220-1YE26-0AP0

Ambient conditions		
Class 3C2, according to IEC 60721-3-3: 2002		
Air cooling using an integrated fan		
0.018 m ³ /s (0.653 ft ³ /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		
Connections		
0.15 1.50 mm ² (AWG 24 AWG 16)		
screw-type terminal		
1.50 16.00 mm ² (AWG 16 AWG 6)		
(AWG 16 AWG 6)		
(AWG 16 AWG 6) Screw-type terminals 1.50 16.00 mm²		
(AWG 16 AWG 6) Screw-type terminals 1.50 16.00 mm²		
(AWG 16 AWG 6) Screw-type terminals 1.50 16.00 mm² (AWG 16 AWG 6)		

Mechanical data		
Degree of protection	IP20 / UL open type	
Frame size	FSC	
Net weight	7.66 kg (16.89 lb)	
Dimensions		
Width	140 mm (5.51 in)	
Height	295 mm (11.61 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%)	36.8 %	



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.