

Article No. : 6SL3220-3YD26-0CB0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data

Input	
Number of phases	3 AC
Line voltage	380 ... 440 V +10 % -20 %
Line frequency	47 ... 63 Hz
Rated current (LO)	25.80 A

Output	
Number of phases	3 AC
Rated voltage	400 V
Rated power IEC 400V (LO)	11.00 kW
Rated current 400V (IN)	25.00 A
Rated current 380V (IN)	25.00 A
Rated current (LO)	25.00 A
Max. output current	27.50 A
Pulse frequency	4 kHz
Output frequency for vector control	0 ... 240 Hz
Output frequency for V/f control	0 ... 550 Hz

Overload capability	
Low Overload (LO)	
110% base load current IL for 60 s in a 600 s cycle time	
Max. output current	
Max. output current for 60 s in a 600 s cycle time	

General tech. specifications

Power factor λ	0.75 ... 0.93
Power factor cos φ 1	0.99
Efficiency η	0.98
Sound pressure level (1m)	67 dB
Power loss ³⁾	0.332 kW
Filter class (integrated)	RFI suppression filter for Category C3
EMC category (with accessories)	Category C3
Safety function "Safe Torque Off"	without SIRIUS device (e.g. via S7-1500F)

Communication

Communication	USS, Modbus RTU, BACnet MS/TP
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Inputs / outputs

Standard digital inputs	
Number	6
Switching level: 0 → 1	11 V
Switching level: 1 → 0	5 V
Max. inrush current	15 mA

Fail-safe digital inputs	
Number	0

Digital outputs	
Number as relay changeover contact	4
Output (resistive load)	DC 30 V, 1.0 A
Number as transistor	0

Analog / digital inputs	
Number	2 (Differential input)
Resolution	12 bit

Switching threshold as digital input	
0 → 1	4 V
1 → 0	1.6 V

Analog outputs	
Number	2 (Non-isolated output)

PTC/ KTY interface	
1 motor temperature sensor input, sensors that can be connected: PTC, KTY, PT1000 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	Yes
Torque control, with encoder	No

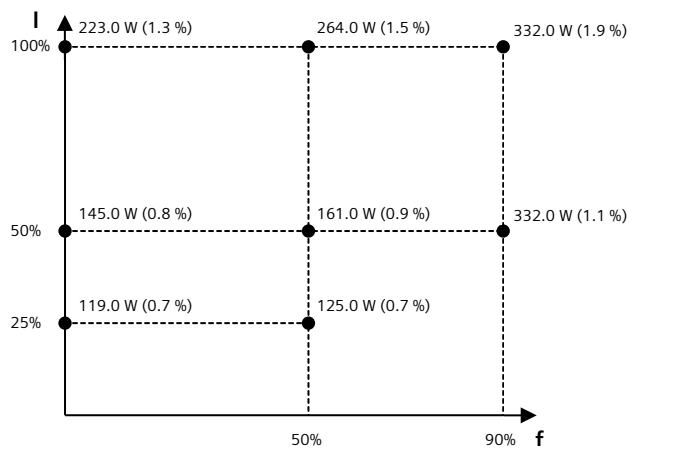
Data sheet for SINAMICS G120XA

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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	0.018 m³/s (0.653 ft³/s)
Installation altitude	1,000 m (3,280.84 ft)
Ambient temperature	
Operation	-20 ... 60 °C (-4 ... 140 °F)
Transport	-40 ... 70 °C (-40 ... 158 °F)
Storage	-40 ... 70 °C (-40 ... 158 °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 mm² (AWG 24 ... AWG 16)
Line side	
Version	screw-type terminal
Conductor cross-section	1.50 ... 16.00 mm² (AWG 16 ... AWG 6)
Motor end	
Version	Screw-type terminals
Conductor cross-section	1.50 ... 16.00 mm² (AWG 16 ... AWG 6)
DC link (for braking resistor)	
PE connection	On housing with M4 screw
Max. motor cable length	
Shielded	50 m (164.04 ft)

Mechanical data	
Degree of protection	IP20 / UL open type
Frame size	FSC
Net weight	7.5 kg (16.53 lb)
Dimensions	
Width	140 mm (5.51 in)
Height	295 mm (11.61 in)
Depth	209 mm (8.23 in)
Standards	
Compliance with standards	CE, EAC, RCM, RoHS II
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%)	37.0 %



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.

*calculated values

³⁾Typical value. More information can be found in the element group "Converter losses to IEC 61800-9-2" in this datasheet.



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Operator panel: Intelligent Operator Panel (IOP-2)	
Screen	
Display design	LCD color
Screen resolution	320 x 240 Pixel
Mechanical data	
Degree of protection	IP55 / UL type 12
Net weight	0.134 kg (0.30 lb)
Dimensions	
Width	70.00 mm (2.76 in)
Height	106.85 mm (4.21 in)
Depth	19.65 mm (0.77 in)
Ambient conditions	
Ambient temperature	
Operation	0 ... 50 °C (32 ... 122 °F) 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°C during	
Max. operation	95 %
Approvals	
Certificate of suitability	CE, cULus, EAC, KCC, RCM