

Article No. : 6SL3225-2YD62-0CB0

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

Item no. :
Consignment no. :
Project :

Figure similar



Rated data

Input	
Number of phases	3 AC
Line voltage	380 ... 440 V +10 % -15 %
Line frequency	47 ... 63 Hz
Rated current (LO)	870.00 A

Output	
Number of phases	3 AC
Rated voltage	400 V
Rated power IEC 400V (LO)	450.00 kW
Rated current 400V (IN)	803.04 A
Rated current 380V (IN)	840.00 A
Rated current (LO)	784.00 A
Max. output current	1,107.00 A
Pulse frequency	2 kHz
Output frequency for vector control	0 ... 100 Hz
Output frequency for V/f control	0 ... 100 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)	75.4 dB
Power loss ³⁾	9.550 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

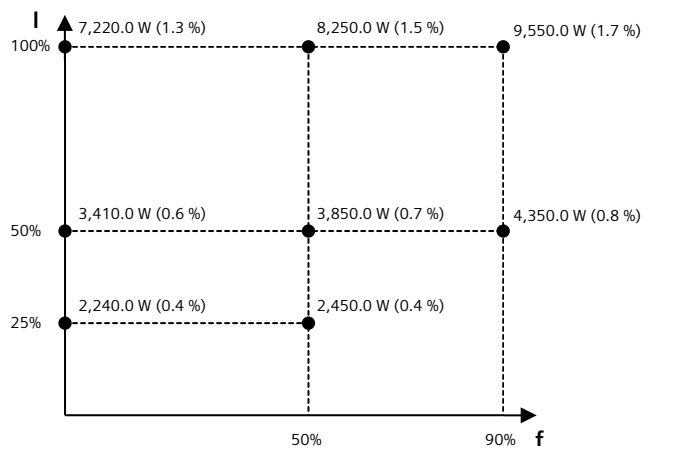
V/f linear / square-law / parameterizable	Yes
V/f with flux current control (FCC)	Yes
V/f ECO linear / square-law	Yes
Sensorless vector control	Yes
Vector control, with sensor	No
Encoderless torque control	Yes
Torque control, with encoder	No

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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	0.345 m³/s (12.183 ft³/s)
Installation altitude	1,000 m (3,280.84 ft)
Ambient temperature	
Operation	0 ... 60 °C (32 ... 140 °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 mm² (AWG 24 ... AWG 16)
Line side	
Version	M12 screw
Conductor cross-section	4 x 240.00 mm² (MCM 4 x 500)
Motor end	
Version	M12 screw
Conductor cross-section	4 x 240.00 mm² (MCM 4 x 500)
DC link (for braking resistor)	
PE connection	M12 screw
Max. motor cable length	
Shielded	100 m (328.08 ft)

Mechanical data	
Degree of protection	IP00
Frame size	FSJ
Net weight	204 kg (449.74 lb)
Dimensions	
Width	801 mm (31.54 in)
Height	1,438 mm (56.61 in)
Depth	410 mm (16.14 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%)	41.2 %



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.



Data sheet for SINAMICS G120XA

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Operator panel: Basic Operator Panel (BOP-2)	
Screen	
Display design	LCD, monochrome
Mechanical data	
Degree of protection	IP55 / UL type 12
Net weight	0.140 kg (0.31 lb)
Dimensions	
Width	70.00 mm (2.76 in)
Height	106.85 mm (4.21 in)
Depth	19.60 mm (0.77 in)
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