

Article No. : 6SL3220-3YH62-0CP0

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	500 ... 690 V +10 % -10 %	
Line frequency	47 ... 63 Hz	
Rated voltage	690V IEC	600V NEC
Rated current (LO)	489.00 A	526.00 A
Rated current (HO)	410.00 A	440.00 A
Output		
Number of phases	3 AC	
Rated voltage	690V IEC	600V NEC ¹⁾
Rated power (LO)	450.00 kW	500.00 hp
Rated power (HO)	400.00 kW	450.00 hp
Rated current (LO)	470.00 A	487.00 A
Rated current (HO)	394.00 A	423.00 A
Rated current (IN)	516.00 A	
Max. output current	682.00 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 300 s cycle time		
High Overload (HO)		
150% x base load current IH for 60 s within a 300 s cycle time		
General tech. specifications		
Power factor λ	0.75 ... 0.93	
Offset factor cos φ	0.96	
Efficiency η	0.98	
Sound pressure level (1m)	74 dB	
Power loss ³⁾	8.840 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	PROFIBUS DP	

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	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	
1 motor temperature sensor input, sensors that can be connected PTC, KTY 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	No
Torque control, with encoder	No

Data sheet for SINAMICS G120X

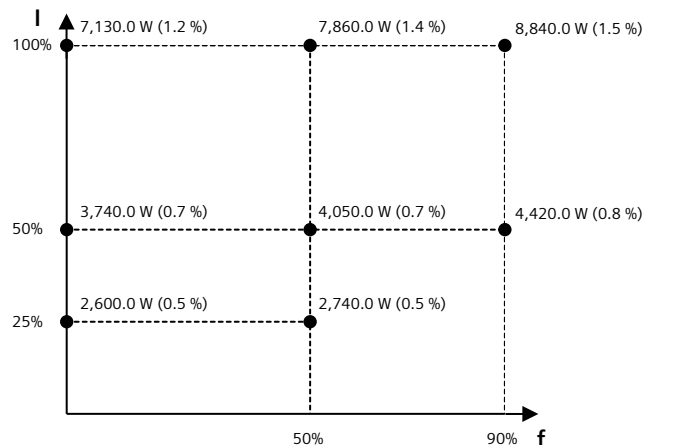
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Ambient conditions	
Standard board coating type	Class 3C2, according to IEC 60721-3-3: 2002
Cooling	Air cooling using an integrated fan
Cooling air requirement	0.362 m³/s (12.784 ft³/s)
Installation altitude	1,000 m (3,280.84 ft)
Ambient temperature	
Operation	0 ... 45 °C (32 ... 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

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 2 x 500 ... MCM 4 x 500)
Motor end	
Version	M12 screw
Conductor cross-section	4 x 240.00 mm² (MCM 2 x 500 ... MCM 4 x 500)
DC link (for braking resistor)	
PE connection	M12 screw
Max. motor cable length	
Shielded	150 m (492.13 ft)

Mechanical data	
Degree of protection	IP20 / UL open type
Frame size	FSH
Net weight	162 kg (357.15 lb)
Dimensions	
Width	548 mm (21.57 in)
Height	1,695 mm (66.73 in)
Depth	393 mm (15.47 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%)	37.8 %



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 550V-600V
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

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Operator panel: Intelligent Operator Panel (IOP-2)	
Screen	Ambient conditions
Display design	LCD color
Screen resolution	320 x 240 Pixel
Mechanical data	Ambient temperature
Degree of protection	IP55 / UL type 12
Net weight	0.134 kg (0.30 lb)
Dimensions	Operation
Width	70.00 mm (2.76 in)
Height	106.85 mm (4.21 in)
Depth	19.65 mm (0.77 in)
	Storage
	Transport
	Relative humidity at 25°C during
	Max. operation
	Approvals
	Certificate of suitability

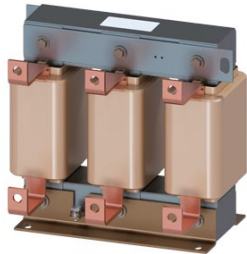


Figure similar

MLFB-Ordering data 6SL3000-0CH36-0AA0

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Rated data

Connections

Input	
Number of phases	3 AC
Line voltage	500 ... 690 V

Output	
Rated current	597.0 A

Load side	
Version	1 x hole for M12

Mechanical data

Dimensions	
Width	350.0 mm (13.8 in)
Height	321.0 mm (12.6 in)
Depth	232.5 mm (9.2 in)
Degree of protection	IP00
Net weight	63.8 kg (141.0 lb)

PE connection	
Version	M6 screw