

Article No. : 6SL3220-3YH68-0CB0



Figure similar

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

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Project :

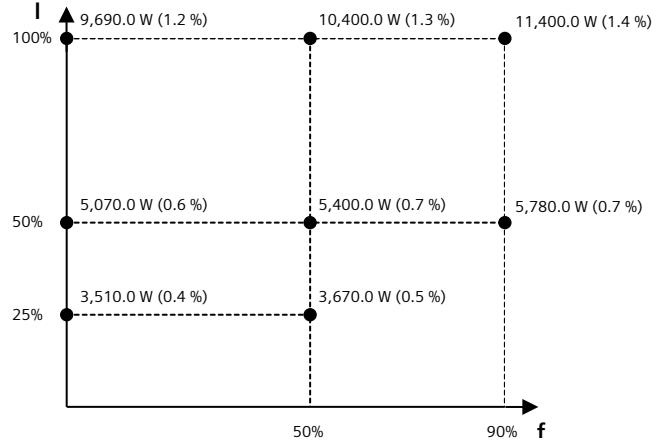
Rated data		
Input		
Number of phases	3 AC	
Line voltage	500 ... 690 V +10 % -10 %	
Line frequency	47 ... 63 Hz	
Rated voltage	690V IEC	600V NEC
Rated current (LO)	675.00 A	737.00 A
Rated current (HO)	552.00 A	602.00 A
Output		
Number of phases	3 AC	
Rated voltage	690V IEC	600V NEC¹⁾
Rated power (LO)	630.00 kW	700.00 hp
Rated power (HO)	560.00 kW	500.00 hp
Rated current (LO)	650.00 A	679.00 A
Rated current (HO)	532.00 A	580.00 A
Rated current (IN)	725.00 A	
Max. output current	959.00 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 $\cos \phi$	0.96	
Efficiency η	0.98	
Sound pressure level (1m)	74 dB	
Power loss ³⁾	11.400 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	

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 $\pm 5^\circ\text{C}$				

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	

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Ambient conditions		Mechanical data	
Standard board coating type	Class 3C2, according to IEC 60721-3-3: 2002	Degree of protection	IP20 / UL open type
Cooling	Air cooling using an integrated fan	Frame size	FSJ
Cooling air requirement	0.450 m ³ /s (15.892 ft ³ /s)	Net weight	246 kg (542.34 lb)
Installation altitude	1,000 m (3,280.84 ft)	Dimensions	
Ambient temperature		Width	801 mm (31.54 in)
Operation	0 ... 45 °C (32 ... 113 °F)	Height	1,621 mm (63.82 in)
Transport	-40 ... 70 °C (-40 ... 158 °F)	Depth	393 mm (15.47 in)
Storage	-25 ... 55 °C (-13 ... 131 °F)	Standards	
Relative humidity		Compliance with standards	UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH
Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC
Connections			
Signal cable			
Conductor cross-section	0.15 ... 1.50 mm ² (AWG 24 ... AWG 16)	Converter losses to IEC61800-9-2*	
Line side			
Version	M12 screw	Efficiency class	IE2
Conductor cross-section	6 x 240.00 mm ² (MCM 4 x 500 ... MCM 6 x 500)	Comparison with the reference converter (90% / 100%)	35.1 %
Motor end			
Version	M12 screw		
Conductor cross-section	6 x 240.00 mm ² (MCM 4 x 500 ... MCM 8 x 500)		
DC link (for braking resistor)			
PE connection	M12 screw		
Max. motor cable length			
Shielded	150 m (492.13 ft)		



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

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

SIEMENS

Data sheet for SINAMICS G120X

Article No. : 6SL3220-3YH68-0CB0

Operator panel: Intelligent Operator Panel (IOP-2)

Screen		Ambient conditions	
Display design	LCD color	Ambient temperature	
Screen resolution	320 x 240 Pixel	Operation	0 ... 50 °C (32 ... 122 °F) 55 °C only with door installation kit
Mechanical data		Relative humidity at 25°C during	
Degree of protection	IP55 / UL type 12	Storage	-40 ... 70 °C (-40 ... 158 °F)
Net weight	0.134 kg (0.30 lb)	Transport	-40 ... 70 °C (-40 ... 158 °F)
Dimensions			
Width	70.00 mm (2.76 in)	Max. operation	95 %
Height	106.85 mm (4.21 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM
Depth	19.65 mm (0.77 in)	Approvals	

MLFB-Ordering data

6SL3000-0CH38-4AA0



Figure similar

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Project :

Remarks :

Rated data	Connections
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Input

Number of phases 3 AC

Line voltage 500 ... 690 V

Output

Rated current 840.0 A

Load side

Version 1 x hole for M12

Mechanical data

Dimensions

Width 410.0 mm (16.1 in)

PE connection

Height 385.0 mm (15.2 in)

Version M6 screw

Depth 224.0 mm (8.8 in)

Degree of protection IP00

Net weight 98.0 kg (216.0 lb)