SIEMENS

Data sheet for SINAMICS G120C

Article No. :

6SL3210-1KE23-8AB1



Figure similar

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

Rated data		
Input		
Number of phases	3 AC	
Line voltage	380 480 V +10 % -20 %	
Line frequency	47 63 Hz	
Rated current (LO)	48.20 A	
Rated current (HO)	45.20 A	
Output		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC ¹⁾
Rated power (LO)	18.50 kW	25.00 hp
Rated power (HO)	15.00 kW	20.00 hp
Rated current (LO)	37.00 A	
Rated current (HO)	31.00 A	
Rated current (IN)	38.00 A	
Max. output current	62.00 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)

150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time

High Overload (HO)

200% base load current IH for 3 s, followed by 150% base load current IH for 57 s in a 300 s cycle time

General tech. specifications		
0.70 0.85		
0.95		
0.97		
66 dB		
448.0 W		
Class A		
Communication		

Communication

USS/MODBUS RTU

ltem no. : Consignment no. : Project :

Inputs / outputs			
6			
11 V			
5 V			
15 mA			
1			
1			
DC 30 V, 0.5 A			
1			
DC 30 V, 0.5 A			
1 (Differential input)			
10 bit			
4 V			
1.6 V			
1 (Non-isolated output)			
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			
Yes			
Yes			
Yes			

Sensorless vector control Yes Vector control, with sensor No

Encoderless torque control No Torque control, with encoder No

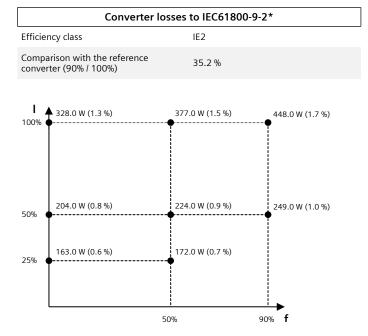
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Ambi	ent conditions	
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.018 m³/s (0.636 ft³/s)	
Installation altitude	1,000 m (3,280.84 ft)	
Ambient temperature		
Operation	-10 40 °C (14 104 °F)	
Transport	-40 70 °C (-40 158 °F)	
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	Plug-in screw terminals	
Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)	
Motor end		
Version	Plug-in screw terminals	
Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)	
DC link (for braking resistor)		
Version	Plug-in screw terminals	
Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)	
Line length, max.	15 m (49.21 ft)	
PE connection	On housing with M4 screw	
Max. motor cable length		
Shielded	50 m (164.04 ft)	
Unshielded	100 m (328.08 ft)	
Mechanical data		
Degree of protection	IP20 / UL open type	
Frame size	FSC	
Net weight	4.40 kg (9.70 lb)	
Dimensions		
Width	140 mm (5.51 in)	
Height	295 mm (11.61 in)	
Depth	203 mm (7.99 in)	
	Standards	
Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
CE marking	EMC Directive 2004/108/EC, Low- Voltage Directive 2006/95/EC	



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

¹⁾The output current and HP ratings are valid for the voltage range 440V-480V