# SIEMENS

Data sheet for SINAMICS G120C

### Article No. :

### 6SL3210-1KE23-2UF1



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)	40.60 A		
Rated current (HO)	36.40 A		
Output			
Number of phases	3 AC		
Rated voltage	400V IEC	480V NEC <sup>1)</sup>	
Rated power (LO)	15.00 kW	20.00 hp	
Rated power (HO)	11.00 kW	15.00 hp	
Rated current (LO)	31.00 A		
Rated current (HO)	25.00 A		
Rated current (IN)	32.00 A		
Max. output current	50.00 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		
Power factor $\lambda$	0.70 0.85	
Offset factor $\cos \phi$	0.95	
Efficiency η	0.97	
Sound pressure level (1m)	66 dB	
Power loss	361.0 W	
Filter class (integrated)	Unfiltered	
Communication		

Communication

PROFINET, EtherNet/IP

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

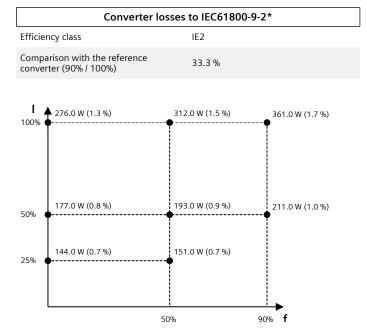
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Ambient conditions		
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.018 m³/s (0.636 ft³/s)	
Installation altitude	1,000 m (3,280.84 ft)	
Ambient temperature		
Operation	-10 40 °C (14 104 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-40 70 °C (-40 158 °F)	
Relative humidity		
Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
Ca	onnections	
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	150 m (492.13 ft)	
Unshielded	150 m (492.13 ft)	
Mec	hanical 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	208 mm (8.19 in)	
9	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

 $^{1)}\mbox{The}$  output current and HP ratings are valid for the voltage range 440V-480V