# SIEMENS

Data sheet for SINAMICS G120C

### Article No. :

### 6SL3210-1KE15-8AB2



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

Rated data		
3 AC		
380 480 V +10 %	% -20 %	
47 63 Hz		
7.40 A		
6.00 A		
3 AC		
400V IEC	480V NEC <sup>1)</sup>	
2.20 kW	3.00 hp	
1.50 kW	2.00 hp	
5.60 A		
4.10 A		
5.80 A		
8.20 A		
4 kHz		
0 240 Hz		
0 550 Hz		
	3 AC 3 80 480 V +10 9 47 63 Hz 7.40 A 6.00 A 3 AC 400V IEC 2.20 kW 1.50 kW 5.60 A 4.10 A 5.80 A 8.20 A 4 kHz 0 240 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)	49 dB	
Power loss	76.4 W	
Filter class (integrated)	Class A	
Communication		

Communication

USS/MODBUS RTU

Item no. : Consignment no. : Project :

Inputs / outputs		
Standard digital inputs		
Number	6	
Switching level: $0 \rightarrow 1$	11 V	
Switching level: $1 \rightarrow 0$	5 V	
Max. inrush current	15 mA	
Fail-safe digital inputs		
Number	1	
Digital outputs		
Number as relay changeover contact	1	
Output (resistive load)	DC 30 V, 0.5 A	
Number as transistor	1	
Output (resistive load)	DC 30 V, 0.5 A	
Analog / digital inputs		
Number	1 (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, ser Thermo-Click, accuracy $\pm 5~^\circ\mathrm{C}$	nsors that can be connected PTC, KTY and	
Closed-loop co	ntrol 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	Vec	

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	

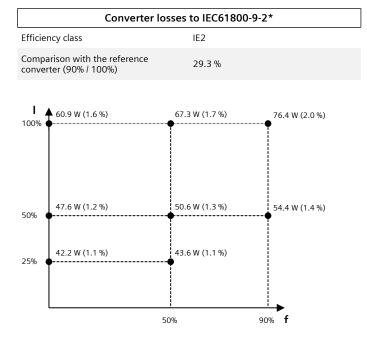
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Ambi	ent conditions
Cooling	Air cooling using an integrated fan
Cooling air requirement	0.005 m³/s (0.177 ft³/s)
Installation altitude	1,000 m (3,280.84 ft)
Ambient temperature	
Operation	-10 40 °C (14 104 °F)
Transport	-40 70 °C (-40 158 °F)
Storage	-40 70 °C (-40 158 °F)
Relative humidity	
Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible
C	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	1.00 2.50 mm² (AWG 18 AWG 14)
Motor end	
Version	Plug-in screw terminals
Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)
DC link (for braking resistor)	
Version	Plug-in screw terminals
Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)
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)
Me	chanical data
Degree of protection	IP20 / UL open type
Frame size	FSAA
Net weight	1.40 kg (3.09 lb)
Dimensions	
Width	73 mm (2.87 in)
Height	173 mm (6.81 in)
Depth	155 mm (6.10 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

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