SIEMENS

Data sheet for SINAMICS G120C

Article No. :

6SL3210-1KE18-8UB1



Figure similar

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

Rated data		
Input		
Number of phases	3 AC	
Line voltage	380 480 V +10 %	6 -20 %
Line frequency	47 63 Hz	
Rated current (LO)	11.40 A	
Rated current (HO)	10.60 A	
Output		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC ¹⁾
Rated power (LO)	4.00 kW	5.00 hp
Rated power (HO)	3.00 kW	4.00 hp
Rated current (LO)	8.80 A	
Rated current (HO)	7.30 A	
Rated current (IN)	9.00 A	
Max. output current	14.60 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 λ	0.70 0.85	
Offset factor $\cos \phi$	0.95	
Efficiency η	0.97	
Sound pressure level (1m)	52 dB	
Power loss	119.0 W	
Filter class (integrated)	Unfiltered	
Communication		

Communication

USS/MODBUS RTU

ltem no. : Consignment no. : Project :

KTY and

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	

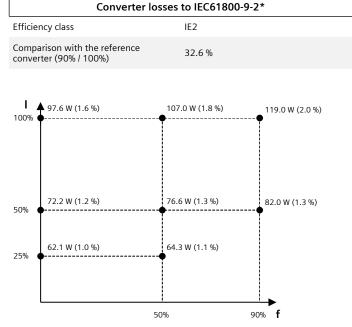
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Ambient conditions		
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Installation altitude	1,000 m (3,280.84 ft)	
Ambient temperature		
Operation	-10 40 °C (14 104 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-40 70 °C (-40 158 °F)	
Relative humidity		
Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
Со	nnections	
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 mm ² (AWG 18 AWG 14)	
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	FSA	
Net weight	1.70 kg (3.75 lb)	
Dimensions		
Width	73 mm (2.87 in)	
Height	196 mm (7.72 in)	
Depth	203 mm (7.99 in)	
S	tandards	
Compliance with standards	UL, cUL, CE, C-Tick (RCM)	



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

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