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Data sheet for SINAMICS G120C

Article No. :

6SL3210-1KE12-3UB2



Figure similar

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

Rated data			
AC			
80 480 V +10 %	-20 %		
7 63 Hz			
2.90 A			
.50 A			
AC			
00V IEC	480V NEC ¹⁾		
).75 kW	1.00 hp		
0.55 kW	0.75 hp		
2.20 A			
.70 A			
30 A			
.40 A			
kHz			
240 Hz			
550 Hz			
	AC 80 480 V +10 % 7 63 Hz .90 A .50 A .50 A .50 A .55 K 20 A .75 kW .20 A .20 A .2		

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)	49 dB	
Power loss	38.6 W	
Filter class (integrated)	Unfiltered	
Communication		

Communication

USS/MODBUS RTU

ltem 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, 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

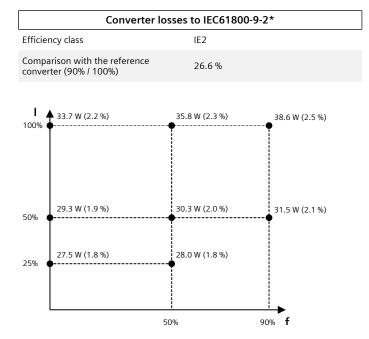
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Ambient conditions		
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Installation altitude	1,000 m (3,280.84 ft)	
Ambient temperature		
Operation	-10 40 °C (14 104 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-40 70 °C (-40 158 °F)	
Relative humidity		
Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
Co	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	150 m (492.13 ft)	
Unshielded	150 m (492.13 ft)	
Мес	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⁾The output current and HP ratings are valid for the voltage range 440V-480V