

Article No. : 6SL3220-1YE48-0AF0

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

Item no. :
Consignment no. :
Project :



Figure similar

Rated data				
Input				
Number of phases	3 AC			
Line voltage	380 ... 480 V +10 % -20 %			
Line frequency	47 ... 63 Hz			
Rated voltage	400V IEC	480V NEC		
Rated current (LO)	241.00 A	232.00 A		
Rated current (HO)	218.00 A	191.00 A		
Output				
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC ¹⁾		
Rated power (LO)	132.00 kW	200.00 hp		
Rated power (HO)	110.00 kW	150.00 hp		
Rated current (LO)	250.00 A	240.00 A		
Rated current (HO)	205.00 A	180.00 A		
Rated current (IN)	256.00 A			
Max. output current	338.00 A			
Pulse frequency	2 kHz			
Output frequency for vector control	0 ... 200 Hz			
Output frequency for V/f control	0 ... 550 Hz			
Overload capability				
Low Overload (LO)				
110% base load current IL for 60 s in a 300 s cycle time				
High Overload (HO)				
150% x base load current IH for 60 s within a 600 s cycle time				
General tech. specifications				
Power factor λ	0.90 ... 0.95			
Offset factor cos φ	0.99			
Efficiency η	0.98			
Sound pressure level (1m)	72 dB			
Power loss ³⁾	3.160 kW			
Filter class (integrated)	RFI suppression filter for Category C2			
EMC category (with accessories)	Category C2			
Safety function "Safe Torque Off"	without SIRIUS device (e.g. via S7-1500F)			
Communication				
Communication	PROFINET, EtherNet/IP			

Inputs / outputs	

Data sheet for SINAMICS G120X

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Ambient conditions	
Standard board coating type	Class 3C2, according to IEC 60721-3-3: 2002
Cooling	Air cooling using an integrated fan
Cooling air requirement	0.153 m³/s (5.403 ft³/s)
Installation altitude	1,000 m (3,280.84 ft)
Ambient temperature	
Operation	-20 ... 45 °C (-4 ... 113 °F)
Transport	-40 ... 70 °C (-40 ... 158 °F)
Storage	-25 ... 55 °C (-13 ... 131 °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	M10 screw
Conductor cross-section	35.00 ... 2 x 120.00 mm² (AWG 1 ... AWG 2 x 4/0)
Motor end	
Version	M10 screw
Conductor cross-section	35.00 ... 2 x 120.00 mm² (AWG 1 ... AWG 2 x 4/0)
DC link (for braking resistor)	
PE connection	M10 screw
Max. motor cable length	
Shielded	150 m (492.13 ft)

Mechanical data	
Degree of protection	IP20 / UL open type
Frame size	FSF
Net weight	71 kg (156.53 lb)
Dimensions	
Width	305 mm (12.01 in)
Height	709 mm (27.91 in)
Depth	369 mm (14.53 in)
Standards	
Compliance with standards	UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH
CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC

Converter losses to IEC61800-9-2*	
Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	44.6 %

