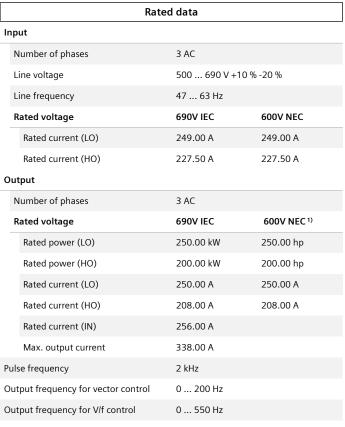


Data sheet for SINAMICS G120X

6SL3230-2YH54-0CF0 Article No.:

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



Overload	capabi	lity
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Low Overload (LO)

110% base load current IL for 60 s in a 300 s cycle time

High Overload (HO)

Communication

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 $\cos\phi$	0.99	
Efficiency η	0.98	
Sound pressure level (1m)	74 dB	
Power loss 3)	4.630 kW	
Filter class (integrated)	RFI suppression filter for Category C3	
EMC category (with accessories)	Category C3	
Safety function "Safe Torque Off"	without SIRIUS device (e.g. via S7- 1500F)	

Communication

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	2
Output (resistive load)	DC 30 V, 5.0 A
Number as transistor	0
Analog / digital inputs	
Number	2 (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 ±5 °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

PROFINET, EtherNet/IP



Data sheet for SINAMICS G120X

Article No.: 6SL3230-2YH54-0CF0

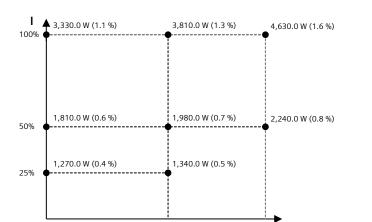
Standard board coating type 20	
Cooling Ai	ass 3C3, according to IEC 60721-3-3: 002
	r cooling using an integrated fan
Cooling air requirement 0.	210 m³/s (7.416 ft³/s)
Installation altitude 1,	000 m (3,280.84 ft)
Ambient temperature	
Operation -2	0 45 °C (-4 113 °F)
Transport -4	0 70 °C (-40 158 °F)
Storage -2	5 55 °C (-13 131 °F)
Relative humidity	
	5 % At 40 °C (104 °F), condensation nd icing not permissible
Connections	
Signal cable	
Conductor cross-section	15 1.50 mm² .WG 24 AWG 16)
Line side	
Version M	10 screw
Conductor cross-section 35	10 screw 5.00 2 x 185.00 mm² .WG 1 MCM 2 x 350)
Conductor cross-section 35	5.00 2 x 185.00 mm²
Conductor cross-section (A	5.00 2 x 185.00 mm²
Conductor cross-section (A Motor end Version M Conductor cross-section (35)	5.00 2 x 185.00 mm² WG 1 MCM 2 x 350)
Conductor cross-section (A Motor end Version M Conductor cross-section 35 (A	5.00 2 x 185.00 mm ² WG 1 MCM 2 x 350) 10 screw 5.00 2 x 185.00 mm ²
Conductor cross-section Motor end Version Conductor cross-section Conductor cross-section DC link (for braking resistor)	5.00 2 x 185.00 mm ² WG 1 MCM 2 x 350) 10 screw 5.00 2 x 185.00 mm ²
Conductor cross-section Motor end Version Conductor cross-section Conductor cross-section DC link (for braking resistor)	5.00 2 x 185.00 mm ² .WG 1 MCM 2 x 350) 10 screw 5.00 2 x 185.00 mm ² .WG 1 MCM 2 x 350)

Mechanical data		
Degree of protection	IP20 / UL open type	
Frame size	FSG	
Net weight	120 kg (264.56 lb)	
Dimensions		
Width	305 mm (12.01 in)	
Height	999 mm (39.33 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*

IE2

38.1 %



The percentage values show the losses in relation to the rated apparent power of the converter.

50%

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

Efficiency class

Comparison with the reference

converter (90% / 100%)

¹⁾ The output current and HP ratings are valid for the voltage range 550V-600V

³⁾Typical value. More information can be found in the element group "Converter losses to IEC 61800-9-2" in this datasheet.



Data sheet for SINAMICS G120X

Article No.: 6SL3230-2YH54-0CF0

	Operator pane	el: Basic Operator Panel (BOP-2)
	Screen	
Display design	LCD, monochrome	Ambient temperature
	Mechanical data	Operation
Degree of protection	IP55 / UL type 12	Storage
Net weight	0.140 kg (0.31 lb)	Transport Relative humidity at 25
Dimensions		Max. operation
Width	70.00 mm (2.76 in)	iviax. operation
Height	106.85 mm (4.21 in)	
Depth	19.60 mm (0.77 in)	Certificate of suitability

Ambient conditions		
Ambient temperature		
Operation	0 50 °C (32 122 °F)	
Storage	-40 70 °C (-40 158 °F)	
Transport	-40 70 °C (-40 158 °F)	
Relative humidity at 25°C during		
Max. operation	95 %	
Approvals		
Certificate of suitability	CE, cULus, EAC, KCC, RCM	

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6SL32302YH540CF0