SIEMENS

Data sheet for SINAMICS G120C

MLFB-Ordering data   6SL3210-1KE21-3AB0

Client order no. :   Item no. :
Order no. :   Consignment no. :
Offer no. :   Project :
Remarks :

Rated data

Input

Number of phases	3 AC
Line voltage	380 ... 480 V +10 % -20 %
Line frequency	47 ... 63 Hz
Rated current (LO)	16.50 A
Rated current (HO)	12.80 A

Output

Number of phases	3 AC
Rated voltage	400 V
Rated power (LO)	5.50 kW
Rated power (HO)	4.00 kW
Rated current (IN)	13.00 A
Rated current (LO)	12.50 A
Rated current (HO)	8.80 A
Max. output current	17.60 A
Pulse frequency	4.000 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 φ	0.95
Efficiency η	0.97
Sound pressure level (1m)	63 dB
Power loss	0.18 kW

Ambient conditions

Cooling	Air cooling using an integrated fan
Cooling air requirement	0.009 m³/s
Installation altitude	1000 m

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

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

Communication

Communication	RS485

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

Page 1 of 2

Generated Fri May 18 13:08:52 CEST 2018

SIEMENS

Data sheet for SINAMICS G120C

MLFB-Ordering data   **6SL3210-1KE21-3AB0**

Mechanical data

Degree of protection	IP20 / UL open type
Size	FSB
Net weight	2.30 kg
Width	100.0 mm
Height	196.0 mm
Depth	203.0 mm

Inputs / outputs

Standard digital inputs

Number	6
Switching level: 0→1	11 V
Switching level: 1→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)

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

Standards

Compliance with standards	UL, cUL, CE, C-Tick (RCM)
CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC

Connections

Signal cable

Conductor cross-section	0.15 ... 1.50 mm² (24 ... 16 AWG)

Line side

Version	Plug-in screw terminals
Conductor cross-section	4.00 ... 6.00 mm² (12 ... 10 AWG)

Motor end

Version	Plug-in screw terminals
Conductor cross-section	4.00 ... 6.00 mm² (12 ... 10 AWG)

DC link (for braking resistor)

Version	Plug-in screw terminals
Conductor cross-section	4.00 ... 6.00 mm² (12 ... 10 AWG)
PE connection	On housing with M4 screw

Max. motor cable length

Shielded	50 m
Unshielded	100 m

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

Page 2 of 2

Generated Fri May 18 13:08:52 CEST 2018