

Article No. : 6SL3210-1KE15-8UB0

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 current (LO)	7.40 A
Rated current (HO)	6.00 A

Output	
Number of phases	3 AC
Rated voltage	400V IEC 480V NEC ¹⁾
Rated power (LO)	2.20 kW 3.00 hp
Rated power (HO)	1.50 kW 2.00 hp
Rated current (LO)	5.60 A
Rated current (HO)	4.10 A
Rated current (IN)	5.80 A
Max. output current	8.20 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 φ	0.95
Efficiency η	0.97
Sound pressure level (1m)	52 dB
Filter class (integrated)	Unfiltered

Communication	
Communication	USS/MODBUS RTU

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)
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

Data sheet for SINAMICS G120C

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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
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Connections

Signal cable

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

Mechanical 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)

Standards

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

¹⁾The output current and HP ratings are valid for the voltage range 440V-480V