



Ordering data

6SL3210-1KE18-8AB1

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Rated data

Input

Number of phases	3 AC
Line voltage	380 ... 480 V +10 % -20 %
Line frequency	47 ... 63 Hz
Rated current (LO)	11.40 A
Rated current (HO)	10.60 A

Output

Number of phases	3 AC
Rated voltage	400 V
Rated power (LO)	4.00 kW
Rated power (HO)	3.00 kW
Rated current (IN)	10.60 A
Rated current (LO)	8.80 A
Rated current (HO)	7.30 A
Max. output current	14.60 A
Pulse frequency	4 kHz
Output frequency for vector control	0 ... 240 Hz
Output frequency for V/f control	0 ... 650 Hz

In firmware V4.7 and higher, due to legal requirements, the maximum output frequency is restricted to 550 Hz.

General tech. specifications

Power factor λ	0.70 ... 0.85
Offset factor $\cos \varphi$	0.95
Efficiency η	0.97
Sound pressure level (1m)	52 dB
Power loss	0.15 kW

Ambient conditions

Cooling	Air cooling using an integrated fan
Cooling air requirement	0.005 m ³ /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
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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



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Mechanical data		Connections	
Degree of protection	IP20 / UL open type	Signal cable	
Size	FSA	Conductor cross-section	0.15 ... 1.50 mm ² (28 ... 16 AWG)
Net weight	1.70 kg	Line side	
Width	73.0 mm	Version	Plug-in screw-type terminals
Height	196.0 mm	Conductor cross-section	1.00 ... 2.50 mm ² (16 ... 14 AWG)
Depth	203.0 mm	Motor end	
Inputs/ outputs		Version	Plug-in screw terminals
Standard digital inputs		Conductor cross-section	1.00 ... 2.50 mm ² (16 ... 14 AWG)
Number	6	DC link (for braking resistor)	
Switching level: 0→1	11 V	Version	Plug-in screw terminals
Switching level: 1→0	5 V	Conductor cross-section	1.00 ... 2.50 mm ² (16 ... 14 AWG)
Max. inrush current	15 mA	PE connection	On housing with M4 screw
Fail-safe digital inputs		Max. motor cable length	
Number	1	Shielded	50 m
Digital outputs		Unshielded	100 m
Number as relay changeover contact	1	Communication	
Output (resistive load)	DC 30 V, 1 A	Communication	RS485
Number as transistor	1	Closed-loop control techniques	
Output (resistive load)	DC 30 V, 1 A	V/f linear / square-law / parameterizable	Yes
Analog/ digital inputs		V/f with flux current control (FCC)	Yes
Number	1 (Differential input)	V/f ECO linear / square-law	Yes
Analog outputs		Sensorless vector control	Yes
Number	1 (Non-isolated output)	Vector control, with sensor	No
PTC/ KTY interface		Encoderless torque control	No
1 motor temperature sensor input, connectable PTC, KTY, and Thermo-Click sensors, accuracy ±5°C		Torque control, with encoder	No
		Standards	
		Compliance with standards	CE, cULus, c-tick
		CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC