

# **Ordering data**

## 6SL3210-1KE21-3AB1



Client order no. : Order no. :

Offer no. :

Remarks :

Item no. :
Consignment no. :
Project :

Rated data		General tec	General tech. specifications		
nput		Power factor $\lambda$	0.70 0.85		
Number of phases	3 AC	Offset factor cos φ	0.95		
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97		
Line frequency	47 63 Hz	Sound pressure level (1m)	63 dB		
Rated current (LO)	16.50 A	Power loss	0.18 kW		
Rated current (HO)	12.80 A	Ambient conditions			
Dutput		Cooling	Air cooling using an integrated fan		
Number of phases	3 AC				
Rated voltage	400 V				
Rated power (LO)	5.50 kW	Cooling air requirement	0.009 m³/s		
Rated power (HO)	4.00 kW	Installation altitude	1000 m		
Rated current (IN)	12.80 A	Ambient temperature			
Rated current (LO)	12.50 A	Operation	-10 40 °C (14 104 °F)		
Rated current (HO)	8.80 A	Transport	-40 70 °C (-40 158 °F)		
Max. output current	17.60 A	Storage	-40 70 °C (-40 158 °F)		
Pulse frequency	4 kHz	Relative humidity			
Output frequency for vector control	0 240 Hz	Max. operation	95 % At 40 °C (104 °F), condensation		
Output frequency for V/f control	0 650 Hz		and icing not permissible		

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



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Mechanical data		Connections			
Degree of protection	IP20 / UL open type	Signal cable			
Size	FSB	Conductor cross-section	0.15 1.	50 mm² (28 16 AWG)	
Net weight	2.30 kg	Line side			
Width	100.0 mm	Version	Plug-in sc	crew-type terminals	
Height	196.0 mm	Conductor cross-section	4.00 6.	4.00 6.00 mm² (12 10 AWG)	
Depth	203.0 mm	Motor end			
Inputs/ outputs		Version	Plug-in sc	Plug-in screw terminals	
Standard digital inputs		Conductor cross-section	4.00 6.	00 mm² (12 10 AWG)	
Number	6	DC link (for braking resistor)			
Switching level: 0→1	11 V	Version	Plug-in sc	Plug-in screw terminals	
Switching level: 1→0	5 V	Conductor cross-section	4.00 6.	4.00 6.00 mm² (12 10 AWG)	
Max. inrush current	15 mA	PE connection	On housir	On housing with M4 screw	
ail-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 / parame	eterizable	Yes	
Analog/ digital inputs		V/f with flux current control (F	CC)	Yes	
Number	1 (Differential input)	V/f ECO linear / square-law		Yes	
		Sensorless vector control		Yes	
nalog outputs Number	1 (Non-isolated output)	Vector control, with sensor		No	
	· · · · · · · · · · · · · · · · · · ·	Encoderless torque control		No	
PTC/ KTY interface		Torque control, with encoder		No	
		Sta	Standards		
1 motor temperature sensor input, connectick sensors, accuracy ±5°C	ctable PTC, KTY, and Thermo-	Compliance with standards	Compliance with standards CE, cULus, c-tick		
		CE marking		ctive 2004/108/EC Lo	

CE marking

EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC