

Ordering data

6SL3210-1KE12-3UB1



Client order no. : Order no. :

Offer no. :

Remarks :

Item no. :
Consignment no. :
Project :

Rated da	ita	General tec	General tech. specifications		
nput		Power factor λ	0.70 0.85		
Number of phases	3 AC	Offset factor $\cos \phi$	0.95		
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97		
Line frequency	47 63 Hz	Sound pressure level (1m)	52 dB		
Rated current (LO)	2.90 A	Power loss	0.05 kW		
Rated current (HO)	2.50 A	Ambient conditions			
Dutput					
Number of phases	3 AC	Cooling	Air cooling using an integrated far		
Rated voltage	400 V	Cooling air requirement	0.005 m³/s		
Rated power (LO)	0.75 kW	Installation altitude	1000 m		
Rated power (HO)	0.55 kW	Ambient temperature			
Rated current (IN)	2.50 A	Operation	-10 40 °C (14 104 °F)		
Rated current (LO)	2.20 A	Transport	-40 70 °C (-40 158 °F)		
Rated current (HO)	1.70 A	Storage	-40 70 °C (-40 158 °F)		
Max. output current	3.40 A	Relative humidity			
Pulse frequency	4 kHz		95 % At 40 °C (104 °F),		
Output frequency for vector control	0 240 Hz	Max. operation	condensation and icing not permissible		
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.

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		Con	nections		
Degree of protection	IP20 / UL open type	Signal cable			
Size	FSA	Conductor cross-section	0.15 1.	50 mm² (28 16 AWG)	
Net weight	1.70 kg	Line side			
Width	73.0 mm	Version	Plug-in sc	Plug-in screw-type terminals	
Height	196.0 mm	Conductor cross-section	1.00 2.	1.00 2.50 mm² (16 14 AWG)	
Depth	203.0 mm	Motor end			
Inputs/ outputs		Version	Plug-in sc	Plug-in screw terminals	
Standard digital inputs		Conductor cross-section	1.00 2.	1.00 2.50 mm² (16 14 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	1.00 2.	1.00 2.50 mm² (16 14 AWG)	
Max. inrush current	15 mA	PE connection	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	
nalog/ digital inputs		V/f with flux current control (F	CC)	Yes	
Number	1 (Differential input)	V/f ECO linear / square-law		Yes	
Analog outputs		Sensorless vector control		Yes	
		Vector control, with sensor		No	
Number	1 (Non-isolated output)	Encoderless torque control		No	
PTC/ KTY interface		Torque control, with encoder		No	
4		Sta	Standards		
1 motor temperature sensor input, conne Click sensors, accuracy $\pm 5^{\circ}C$	ctable PTC, KTY, and Thermo-	Compliance with standards	CE, cULu	a tick	

CE marking

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