

Ordering data

6SL3210-1KE21-7AP0



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

Rated data		General tech. specifications	
Input		Power factor λ	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)	21.50 A	Power loss	0.24 kW
Rated current (HO)	18.20 A	Ambient conditions	
Output			
Number of phases	3 AC	Cooling	Air cooling using an integrated fan
Rated voltage	400 V	Cooling air requirement	$0.009 \text{ m}^3\text{/s}$
Rated power (LO)	7.50 kW	Installation altitude	1000 m
Rated power (HO)	5.50 kW	Ambient temperature	
Rated current (IN)	18.20 A	Operation	-10 40 °C (14 104 °F)
Rated current (LO)	16.50 A	Transport	-40 70 °C (-40 158 °F)
Rated current (HO)	12.50 A	Storage	-40 70 °C (-40 158 °F)
Max. output current	25.00 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 leg 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		Conne	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 screw-type terminals	
Height	196.0 mm	Conductor cross-section	4.00 6.00 mm² (12 10 AWG)	
Depth	203.0 mm	Motor end		
Inputs/ outputs		Version	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 screw terminals	
Switching level: 1→0	5 V	Conductor cross-section	4.00 6.00 mm² (12 10 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	PROFIBUS DP	
Number as transistor	1	Closed-loop control techniques		
Output (resistive load)	DC 30 V, 1 A	V/f linear / square-law / parameter	rizable 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		Vector control, with sensor	No	
	1 (Non-isolated output)	Encoderless torque control	No	
PTC/ KTY interface		Torque control, with encoder	No	
1 motor temperature sensor input, connectable PTC, KTY, and Thermo-		Standards		
Click sensors, accuracy ±5°C	, , , , , , , , , , , , , , , , , , , ,	Compliance with standards	CE, cULus, c-tick	
		CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC	