

MLFB-Ordering data

6SL3210-1KE14-3AF2



Figure similar

Client order no. :	
Order no. :	
Offer no. :	
Remarks :	

Item no. :	
Consignment no. :	
Project :	

Rated data		General tech. specifications		
Input		Power factor λ	0.70	0 0.85
Number of phases	3 AC	Offset factor $\cos\phi$	0.9	5
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	7
Line frequency	47 63 Hz	Sound pressure level (1m)	49 (dB
Rated current (LO)	5.50 A	Power loss	0.0	6 kW
Rated current (HO)	4.50 A	Ambient	Ambient conditions	
Output		Cooling	Air cooling	g using an integrated fan
Number of phases	3 AC	Cooling	All cooling	g using an integrated fair
Rated voltage	400 V	Cooling air requirement	0.005 m³/s	S
Rated power (LO)	1.50 kW	Installation altitude	1000 m	
Rated power (HO)	1.10 kW	Ambient temperature		
Rated current (IN)	4.30 A	Operation	-10 40 °	°C (14 104 °F)
Rated current (LO)	4.10 A	Transport	-40 70 °	°C (-40 158 °F)
Rated current (HO)	3.10 A	Storage	-40 70 °	°C (-40 158 °F)
Max. output current	6.20 A	Relative humidity		
Pulse frequency	4 kHz	95 % At 40 °C (104 °F), cc Max. operation and icing not permissible		0 °C (104 °F), condensation
Output frequency for vector control	0 240 Hz			lot permissible
Output frequency for V/f control	0 550 Hz	Closed-loop control techniques		
		V/f linear / square-law / paramete	rizable	Yes
		V/f with flux current control (FCC))	Yes
		V/f ECO linear / square-law		Yes
Overload capability		Sensorless vector control		Yes
Low Overload (LO)		Vector control, with sensor		No
300 s cycle time		Encoderless torque control		No
High Overload (HO)		Torque control, with encoder		No
200 % base load current IH for 3 s, followed by 300 s cycle time	Communication			
		Communication PROFINET		



MLFB-Ordering data

6SL3210-1KE14-3AF2



Mechanical data		Connections		
Degree of protection	IP20 / UL open type	Signal cable		
Size	FSAA	Conductor cross-section 0.15 1.50 mm² (28 16 AWG)		
Net weight	1.40 kg	Line side		
Width	73.0 mm	Version Plug-in screw terminals		
Height	173.0 mm	Conductor cross-section 1.00 2.50 mm ² (16 14 AWG)		
Depth	178.0 mm	Motor end		
Inputs	s / outputs	Version Plug-in screw terminals		
Standard digital inputs		Conductor cross-section 1.00 2.50 mm² (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 co	ntact 1	Converter losses to EN 50598-2*		
Output (resistive load)	DC 30 V, 0.5 A	Efficiency class		
Number as transistor	1	Comparison with the reference converter (00% /		
Output (resistive load)	DC 30 V, 0.5 A	100%)		
Analog / digital inputs		. I ↑		
Number	1 (Differential input)	100% 49.4 W (1.74 %) 54.6 W (1.91 %) 62.8 W (2.21 %)		
Analog outputs				
5				
Number	1 (Non-isolated output)	50% 3 9.1 W (1.38 %) 4 1.3 W (1.45 %) 4 4.1 W (1.56 %)		
PTC/ KTY interface		34.9 W (1.23 %) 36 W (1.27 %)		
1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\mathrm{C}$		25% -		
Standards		50% 90% f		
Compliance with standards UL, cUL, CE, C-Tick (RCM)		The percentage values show the losses in relation to the rated apparent power of the converter.		
E	MC Directive 2004/108/EC, Low-Voltage	The diagram shows the losses for the points (as per standard EN 50598) of the relative torque		
	irective 2006/95/EC	generating current (I) over the relative motor stator frequency(f). The values are valid for the basic version of the converter without options/components.		

*calculated values; increased by 10% according to the standard