

MLFB-Ordering data

6SL3210-1KE23-2AB1



Figure similar

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

ltem no. :	
Consignment no. :	
Project :	

Rated data		General tech. specifications		
Input		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)	66 dB	
Rated current (LO)	40.60 A	Power loss	0.43 kW	
Rated current (HO)	32.00 A	Ambient conditions		
Output		Cooling	Air cooling using an integrated fan	
Number of phases	3 AC	Cooling	All cooling using an integrated fan	
Rated voltage	400 V	Cooling air requirement	0.018 m³/s	
Rated power (LO)	15.00 kW	Installation altitude	1000 m	
Rated power (HO)	11.00 kW	Ambient temperature		
Rated current (IN)	32.00 A	Operation	-10 40 °C (14 104 °F)	
Rated current (LO)	31.00 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (HO)	25.00 A	Storage	-40 70 °C (-40 158 °F)	
Max. output current	50.00 A	Relative humidity		
Pulse frequency	4 kHz	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
Output frequency for vector control	0 240 Hz			
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) 150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		Vector control, with sensor	No	
		Encoderless torque control	No	
High Overload (HO)		Torque control, with encoder	No	
200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time		Commu	unication	
		Communication	RS485	



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Mechanical data		Connections		
Degree of protection	IP20 / UL open type	Signal cable		
Size	FSC	Conductor cross-section	0.15 1.50 mm² (28 16 AWG)	
Net weight	4.40 kg	Line side		
Width	140.0 mm	Version	Plug-in screw-type terminals	
Height	295.0 mm	Conductor cross-section	6.00 16.00 mm² (10 5 AWG)	
Depth	203.0 mm	Motor end		
Inputs	/ outputs	Version	Plug-in screw terminals	
Standard digital inputs		Conductor cross-section	6.00 16.00 mm² (10 5 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	6.00 16.00 mm² (10 5 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 con	tact 1	Converter losses to EN 50598-2*		
Output (resistive load)	DC 30 V, 1 A	Efficiency class	IE2	
Number as transistor	1	Comparison with the reference conve		
Output (resistive load)	DC 30 V, 1 A	100%)	-03.00 %	
nalog / digital inputs		I ↑		
Number	1 (Differential input)	276.0 W (1.29 %) 320	.0 W (1.49 %) ••••••••••••••••••••••••••••••••	
analog outputs				
Number	1 (Non-isolated output)	178.0 W (0.83 %) 195	.0 W (0.91 %) 218.0 W (1.02 %)	
TC/ KTY interface		144.0 W (0.67 %)	W (0.71 %)	
1 motor temperature sensor input, and Thermo-Click, accuracy ±5 °C	sensors that can be connected: PTC, KTY	25% -		
Star	ndards	50%	90% f	
	, cUL, CE, C-Tick (RCM)	The percentage values show the losses in relation	to the rated apparent power of the converter.	
	IC Directive 2004/108/EC, Low-Voltage rective 2006/95/EC	The diagram shows the losses for the points (as pr generating current (I) over the relative motor state version of the converter without options/compone	or frequency(f). The values are valid for the basic	

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