

MLFB-Ordering data

6SL3210-1KE23-2AF1



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

Item no.: Consignment no. : Project :

Rated data		General tech. specifications		
Input		Power factor λ	0.70 0.85	
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)	66 dB	
Rated current (LO)	40.60 A	Power loss 0.43 kW		
Rated current (HO)	36.40 A	Ambient conditions		
Output		Cooling	Air spaling using an integrated for	
Number of phases	3 AC	Cooling	Air 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	95 % At 40 °C (104 °F)		
Output frequency for vector control	0 240 Hz	Max. operation	and icing not permissible	
Output frequency for V/f control	0 550 Hz	Closed-loop control techniques		
		V/f linear / square-law / parame	eterizable Yes	
		V/f with flux current control (FC	CC) 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		Communication		

PROFINET

Communication



MLFB-Ordering data

Analog outputs

PTC/ KTY interface

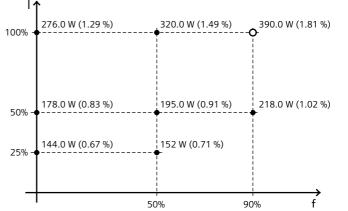
Number

6SL3210-1KE23-2AF1



Fi					

Mechanical data		Con	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 terminals		
Height	295.0 mm	Conductor cross-section	6.00 16.00 mm² (10 5 AWG)		
Depth	225.0 mm	Motor end			
Inputs / outputs		Version	Plug-in screw terminals		
tandard 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		
igital outputs		Unshielded	100 m		
Number as relay changeover contact	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 co	IE2		
Output (resistive load)	DC 30 V, 0.5 A	100%)	-65.06 %		
nalog / digital inputs		 			
Number	1 (Differential input)	276.0 W (1.29 %)	320.0 W (1.49 %) 390.0 W (1.81 %)		



The percentage values show the losses in relation to the rated apparent power of the converter.

The diagram shows the losses for the points (as per standard EN 50598) of the relative torque generating current (I) over the relative motor stator frequency(f). The values are valid for the basic version of the converter without options/components.

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^{\circ}\text{C}$			
Standards			
Compliance with standards	UL, cUL, CE, C-Tick (RCM)		

1 (Non-isolated output)

FMC Diverting 2004/400/FC Level

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

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

^{*}converted values