

MLFB-Ordering data

6SL3210-1KE14-3AB2



Client order no. : Order no. :

Offer no. : Remarks : Item no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
Input		Power factor λ	0.7	0 0.85
Number of phases	3 AC	Offset factor cos φ	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	Ambier	Ambient conditions	
Output			A. 1.	
Number of phases	3 AC	Cooling	Air cooling using an integrated fan	
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), conde Max. operation 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		nniques
		V/f linear / square-law / parame	terizable	Yes
		V/f with flux current control (FG	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		

Communication

RS485



MLFB-Ordering data

Analog outputs

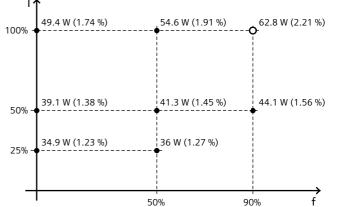
PTC/ KTY interface

Number

6SL3210-1KE14-3AB2



Mechanical data		Coi	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 mm² (16 14 AWG)	
Depth	155.0 mm	Motor end		
Inputs / 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 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	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 (90% / 100%) -76.12 %		
Output (resistive load)	DC 30 V, 0.5 A			
Analog / digital inputs		I.A.		
Number	1 (Differential input)	49.4 W (1.74 %)	54.6 W (1.91 %) 62.8 W (2.21 %)	



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	III cIII CE C-Tick (RCM)			

1 (Non-isolated output)

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

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

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