

## **MLFB-Ordering data**

6SL3210-1KE13-2AF2



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)	49 dB	
Rated current (LO)	4.10 A	Power loss	0.05 kW	
Rated current (HO)	3.20 A	Ambient conditions		
Output				
Number of phases	3 AC	Cooling	Air cooling using an integrated fan	
Rated voltage	400 V	Cooling air requirement	0.005 m³/s	
Rated power (LO)	1.10 kW	Installation altitude	1000 m	
Rated power (HO)	0.75 kW	Ambient temperature		
Rated current (IN)	3.20 A	Operation	-10 40 °C (14 104 °F)	
Rated current (LO)	3.10 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (HO)	2.20 A	Storage	-40 70 °C (-40 158 °F)	
Max. output current	4.40 A	Relative humidity		
Pulse frequency	4 kHz		95 % At 40 °C (104 °F), condensation and icing not permissible	
Output frequency for vector control	0 240 Hz	Max. operation		
Output frequency for V/f control	0 550 Hz	Closed-loop control techniques		
		V/f linear / square-law / paramete	<b>erizable</b> 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		Communication		
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## MLFB-Ordering data

**Analog outputs** 

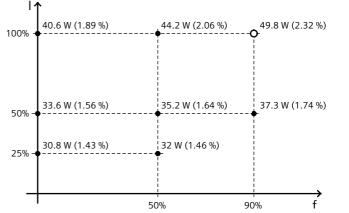
PTC/ KTY interface

Number

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Mechanical data		Со	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-type terminals	
Height	173.0 mm	Conductor cross-section	1.00 2.50 mm² (16 14 AWG)	
Depth	178.0 mm	Motor end		
Inputs / outputs		Version	Plug-in screw terminals	
tandard 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	
igital outputs		Unshielded	100 m	
Number as relay changeover contact	1	Converter los	Converter losses to EN 50598-2*	
Output (resistive load)	DC 30 V, 1 A	Efficiency class		
Number as transistor	1		IE2	
Output (resistive load)	DC 30 V, 1 A	Comparison with the reference c 100%)	-77.90 %	
nalog / digital inputs		1.4		
Number	1 (Differential input)	40.6 W (1.89 %)	44.2 W (2.06 %) 49.8 W (2.32 %)	



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

1 (Non-isolated output)

<sup>\*</sup>calculated values; increased by 10% according to the standard

and Thermo-Click, accuracy ±5 °C **Standards** Compliance with standards UL, cUL, CE, C-Tick (RCM) EMC Directive 2004/108/EC, Low-Voltage **CE** marking Directive 2006/95/EC