

## **MLFB-Ordering data**

6SL3210-1KE17-5AF1



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 0.85	
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)	52 dB	
Rated current (LO)	9.50 A	Power loss	0.14 kW	
Rated current (HO)	8.20 A	Ambien	nt 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)	3.00 kW	Installation altitude	1000 m	
Rated power (HO)	2.20 kW	Ambient temperature		
Rated current (IN)	7.50 A	Operation	-10 40 °C (14 104 °F)	
Rated current (LO)	7.30 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (HO)	5.60 A	Storage	-40 70 °C (-40 158 °F)	
Max. output current	11.20 A	Relative humidity		
Pulse frequency	4 kHz		95 % At 40 °C (104 °F), condensatior	
Output frequency for vector control	0 240 Hz		and icing not permissible	
Output frequency for V/f control	0 550 Hz	Closed-loop control techniques		
		V/f linear / square-law / paramet	terizable Yes	
		V/f with flux current control (FC	C) Yes	
		V/f ECO linear / square-law	Yes	
Overload capability		Sensorless vector control	Yes	
Low Overload (LO)	110 % have been something for 57 and	Vector control, with sensor	No	
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 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 150 % base load current IH for 57 s in a 300 s cycle time		Communication		
		Communication	PROFINET	



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Mechanical data		Connections
Degree of protection	IP20 / UL open type	Signal cable
Size	FSA	<b>Conductor cross-section</b> 0.15 1.50 mm <sup>2</sup> (28 16 AWG)
Net weight	1.70 kg	Line side
Width	73.0 mm	Version Plug-in screw-type terminals
Height	196.0 mm	Conductor cross-section 1.00 2.50 mm² (16 14 AWG)
Depth	225.0 mm	Motor end
Input	ts / 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	<b>Conductor cross-section</b> 1.00 2.50 mm <sup>2</sup> (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 co	ontact 1	Converter losses to EN 50598-2*
Output (resistive load)	DC 30 V, 0.5 A	Efficiency class IE2
Number as transistor	1	Comparison with the reference converter (90% / -68.30 %
Output (resistive load)	DC 30 V, 0.5 A	100%)
Analog / digital inputs		- I <b>↑</b>
Number	1 (Differential input)	100% <b>8</b> 0.0 W (1.58 %) <b>9</b> 1.0 W (1.79 %) <b>1</b> 08.0 W (2.13 %)
Analog outputs		
Number	1 (Non-isolated output)	61.0 W (1.20 %) 65.0 W (1.29 %) 72.0 W (1.42 %)
PTC/ KTY interface		50% -
1 motor temperature sensor inp and Thermo-Click, accuracy ±5 °C	ut, sensors that can be connected: PTC, KTY C	25% - 53.0 W (1.04 %) 55 W (1.08 %)
Standards		50% 90% f
	UL, cUL, CE, C-Tick (RCM)	The percentage values show the losses in relation to the rated apparent power of the converter.
	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC	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.

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