

# **MLFB-Ordering data**

6SL3210-1KE17-5UP1



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General teo	General tech. specifications	
nput		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)	52 dB	
Rated current (LO)	9.50 A	Power loss	0.14 kW	
Rated current (HO)	8.20 A	Filter class (integrated)	Unfiltered	
utput		- Auchie		
Number of phases	3 AC	Ambiei	Ambient conditions	
Rated voltage	400 V	Cooling	Air cooling using an integrated fan	
Rated power IEC 400V (LO)	3.00 kW			
Rated power NEC 480V (LO)	4.00 hp	Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Rated power IEC 400V (HO)	2.20 kW	Installation altitude	1000 m (3280.84 ft)	
Rated power NEC 480V (HO)	3.00 hp	Ambient temperature		
Rated current (LO)	7.30 A	Operation	-10 40 °C (14 104 °F)	
Rated current (HO)	5.60 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (IN)	7.50 A	Storage	-40 70 °C (-40 158 °F)	
		Relative humidity		
Max. output current	11.20 A		95 % At 40 °C (104 °F), condensatior	
Pulse frequency	4 kHz	Max. operation	and icing not permissible	
Output frequency for vector control	0 240 Hz			
		Closed-loop	Closed-loop control techniques	
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parame	eterizable Yes	

### **Overload capability**

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

#### High Overload (HO)

200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time

V/f linear / square-law / parameterizable	Yes	
V/f with flux current control (FCC)	Yes	
V/f ECO linear / square-law	Yes	
Sensorless vector control	Yes	
Vector control, with sensor	No	
Encoderless torque control	No	
Torque control, with encoder	No	



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Mechanical data		Communication		
Degree of protection	IP20 / UL open type	Communication	PROFIBUS DP	
Size	FSA	Connections		
Net weight	1.70 kg (3.75 lb)	Signal cable		
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Height	196 mm (7.72 in)	Line side		
Depth	203 mm (7.99 in)	Version	Plug-in screw terminals	
Inputs / outputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)	
Standard digital inputs		Motor end		
Number	6	Version	Plug-in screw terminals	
Switching level: 0→1	11 V	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)	
Switching level: 1→0	5 V	DC link (for braking resistor)		
Max. inrush current	15 mA	Version	Plug-in screw terminals	
Fail-safe digital inputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)	
Number	1	Line length, max.	15 m (49.21 ft)	
Digital outputs		PE connection	On housing with M4 screw	
Number as relay changeover contact	1	Max. motor cable length	-	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)	
Number as transistor	1	Unshielded	150 m (492.13 ft)	
Output (resistive load)	DC 30 V, 0.5 A	Standards		
Analog / digital inputs		Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
Number	1 (Differential input)			
Resolution	10 bit	CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC	
Switching threshold as digital input				
0→1	4 V			
1→0	1.6 V			
Analog outputs				
Number	1 (Non-isolated output)			
PTC/ KTY interface				
1 motor temperature sensor input, sensor and Thermo-Click, accuracy ±5 °C	rs that can be connected: PTC, KTY			



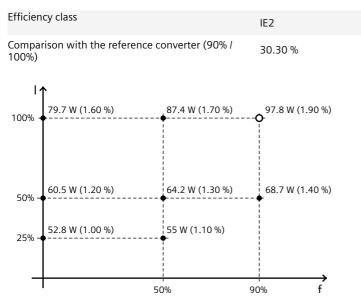
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Figure similar

Converter losses to IEC61800-9-2\*



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 IEC61800-9-2) 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.

\*converted values