

MLFB-Ordering data

6SL3210-1KE18-8UP1



Figure similar

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

ltem 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)	52 dB	
Rated current (LO)	11.40 A	Power loss	0.15 kW	
Rated current (HO)	10.60 A	Ambient conditions		
Output		Ambier		
Number of phases	3 AC	Cooling	Air cooling using an integrated fan	
Rated voltage	400 V	Casting air service want	0.005	
Rated power IEC 400V (LO)	4.00 kW	Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Rated power NEC 480V (LO)	5.00 hp	Installation altitude	1000 m (3280.84 ft)	
Rated power IEC 400V (HO)	3.00 kW	Ambient temperature		
Rated power NEC 480V (HO)	4.00 hp	Operation	-10 40 °C (14 104 °F)	
Rated current (IN)	9.00 A	Transport	-40 70 °C (-40 158 °F)	
		Storage	-40 70 °C (-40 158 °F)	
Rated current (LO)	8.80 A	Relative humidity		
Rated current (HO)	7.30 A	Max. operation	95 % At 40 °C (104 °F), condensation	
Max. output current	14.60 A		and icing not permissible	
Pulse frequency	4.000 kHz			
Output frequency for vector control	0 240 Hz	Closed-loop control techniques		
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parame	eterizable Yes	
		V/f with flux current control (F	CC) Yes	
		V/f ECO linear / square-law	Yes	
Overload capability		Sensorless vector control	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

Communication

Communication

Vector control, with sensor

Encoderless torque control

Torque control, with encoder

PROFIBUS DP

No

No

No



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Mechanical data		Figure simil		
Degree of protection	IP20 / UL open type		Signal cable	
Size	FSA		Conductor cross-section	
Net weight	1.70 kg (3.75 lb)		Line side	
Width	73 mm (2.87 in)		Version	
Height	196 mm (7.72 in)		Conductor cross-section	
Depth	203 mm (7.99 in)		Motor end	
Inputs / out	puts		Version	
Standard digital inputs			Conductor cross-section	
Number	6	D	C link (for braking resistor	
Switching level: 0→1	11 V	Version	n	
Switching level: 1→0	5 V	Conductor cro	oss-section	
Max. inrush current	15 mA	Line length, max.		
Fail-safe digital inputs		PE connection		
Number	1	Max. motor cable le	ength	
Digital outputs		Shielded		
Number as relay changeover contact	1	Unshielded		
Output (resistive load)	DC 30 V, 0.5 A		S	
Number as transistor	1	Compliance with standa	ards	
Output (resistive load)	DC 30 V, 0.5 A			
Analog / digital inputs		CE marking		
Number	1 (Differential input)			
Resolution	10 bit			
Switching threshold as digital inp	out			
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	s that can be connected: PTC, KTY			
and Thermo-Click, accuracy ±5 °C				



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Converter losses to EN 50598-2*

Efficiency class IE2 Comparison with the reference converter (90% / -66.51 % 100%) -**O**-^{130.0 W (2.14 %)} 98.0 W (1.60 %) 110.0 W (1.81 %) 100% 72.0 W (1.18 %) 78.0 W (1.27 %) 85.0 W (1.40 %) 50% 62.0 W (1.02 %) 65 W (1.06 %) 25% f 50% 90%

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.

*converted values