

### **MLFB-Ordering data**

6SL3210-1KE22-6UP1



Client order no. :Item no. :Order no. :Consignment no. :Offer no. :Project :

Remarks :					
Rated data		General ted	General tech. specifications		
Input		Power factor λ	0.7	'0 0.85	
Number of phases	3 AC	Offset factor cos φ	0.9	95	
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	7	
Line frequency	47 63 Hz	Sound pressure level (1m)	66	dB	
Rated current (LO)	33.00 A	Power loss	0.3	35 kW	
Rated current (HO)	24.10 A	Filter class (integrated)	Un	filtered	
Output		Ambia	at conditio		
Number of phases	3 AC	Ambient conditions			
Rated voltage	400 V	Cooling	Air coolin	g using an integrated fan	
Rated power IEC 400V (LO)	11.00 kW	Cooling oir requirement	0.0103	lo (0 626 ft3lo)	
Rated power NEC 480V (LO)	15.00 hp	Cooling air requirement		/s (0.636 ft³/s)	
Rated power IEC 400V (HO)	7.50 kW	Installation altitude	1000 m (	3280.84 ft)	
Rated power NEC 480V (HO)	10.00 hp	Ambient temperature			
Rated current (IN)	26.00 A	Operation	-10 40	°C (14 104 °F)	
Rated current (LO)	25.00 A	Transport	-40 70	°C (-40 158 °F)	
Rated current (HO)	16.50 A	Storage	-40 70	°C (-40 158 °F)	
		Relative humidity			
Max. output current	33.00 A		95 % At 40 °C (104 °F), condensation and icing not permissible		
Pulse frequency	4 kHz	Max. operation			
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	terizable	Yes	
		V/f with flux current control (FC	CC)	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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	L3210-1RE22-00F1		Figu	
Mechanical data		Com	Communication	
Degree of protection	IP20 / UL open type	Communication	PROFIBUS DP	
Size	FSC	Connections		
Net weight	4.40 kg (9.70 lb)	Signal cable		
Width	140 mm (5.51 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG	
Height	295 mm (11.61 in)	Line side		
Depth	203 mm (7.99 in)	Version	Plug-in screw terminals	
Inputs / outputs		Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG	
tandard digital inputs		Motor end		
Number	6	Version	Plug-in screw terminals	
Switching level: 0→1	11 V	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG	
Switching level: 1→0	5 V	DC link (for braking resistor	)	
Max. inrush current	15 mA	Version	Plug-in screw terminals	
ail-safe digital inputs		Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG	
Number	1	Line length, max.	15 m (49.21 ft)	
igital outputs		PE connection	On housing with M4 screw	
Number as relay changeover contact	1	Max. motor cable length	<u> </u>	
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	S	Standards	
nalog / 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-Vo Directive 2006/95/EC	
witching threshold as digital in	put			
0→1	4 V			
1→0	1.6 V			
nalog outputs				

# PTC/ KTY interface

Number

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy  $\pm 5~^\circ\text{C}$ 

1 (Non-isolated output)



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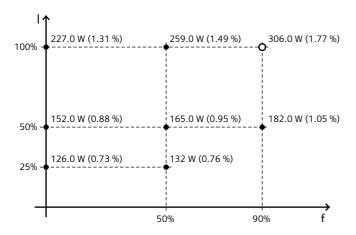
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#### Figure similar

# Converter losses to EN 50598-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-67.40 %



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