

MLFB-Ordering data

6SL3210-1KE22-6UP1



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

Offer no. : Remarks :

Rated da	ıta	
nput		Power fac
Number of phases	3 AC	Offset fac
Line voltage	380 480 V +10 % -20 %	Efficiency
Line frequency	47 63 Hz	Sound pre
Rated current (LO)	33.00 A	Power loss
Rated current (HO)	24.10 A	Filter class
utput		_
Number of phases	3 AC	
Rated voltage	400 V	Cooling
Rated power IEC 400V (LO)	11.00 kW	G. H
Rated power NEC 480V (LO)	15.00 hp	Cooling ai
Rated power IEC 400V (HO)	7.50 kW	Installatio
Rated power NEC 480V (HO)	10.00 hp	Ambient te
Rated current (IN)	26.00 A	Operation
Rated current (LO)	25.00 A	Transport
Rated current (HO)	16.50 A	Storage
Max. output current	33.00 A	Relative hu
Pulse frequency	4 kHz	Max. oper
Output frequency for vector control	0 240 Hz	
Output frequency for V/f control	0 550 Hz	
Output frequency for V/f control	0 550 Hz	V/f linea
Output frequency for V/f control	0 550 Hz	V/f line

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

General tech. specifications			
Danier fortan	0.70 0.05		
Power factor λ	0.70 0.85		
Offset factor cos φ	0.95		
Efficiency η	0.97		
Sound pressure level (1m)	66 dB		
Power loss	0.35 kW		
Filter class (integrated)	Unfiltered		

Ambient conditions		
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.018 m³/s (0.636 ft³/s)	
Installation altitude	1000 m (3280.84 ft)	
Ambient temperature		
Operation	-10 40 °C (14 104 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-40 70 °C (-40 158 °F)	
Relative humidity		

	95 % At 40 °C (104 °F), condensation
Max. operation	and icing not permissible

Closed-loop control techniques		
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		Figure	
Mechanical data		Com	Communication	
egree of protection	IP20 / UL open type	Communication	PROFIBUS DP	
ize	FSC	Co	nnections	
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 1	
Height	295 mm (11.61 in)	Line side		
Depth	203 mm (7.99 in)	Version	Plug-in screw terminals	
Inputs / out	tputs	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG	
andard 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		
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-Vol 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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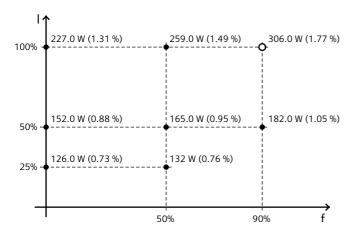
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Figure similar

Converter losses to EN 50598-2*

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