

MLFB-Ordering data

6SL3210-1KE22-6UP1



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

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)	66 d	В
Rated current (LO)	33.00 A	Power loss	0.35 kW	
Rated current (HO)	24.10 A	Ambient conditions		
Output		7		
Number of phases	3 AC	Cooling	Air cooling	using an integrated fan
Rated voltage	400 V	Cooling air requirement 0.018 m³/s (0.636 ft³/s)		
Rated power IEC 400V (LO)	11.00 kW	Installation altitude 1000 m (3280.84 ft)		
Rated power NEC 480V (LO)	15.00 hp		1000 111 (32	280.84 11)
Rated power IEC 400V (HO)	7.50 kW	Ambient temperature		
Rated power NEC 480V (HO)	10.00 hp	Operation		C (14 104 °F)
Rated current (IN)	26.00 A	Transport		C (-40 158 °F)
Rated current (LO)	25.00 A	Storage	-40 70 °C	C (-40 158 °F)
Rated current (HO)	16.50 A	Relative humidity		
Max. output current	33.00 A	95 % At 40 °C (104 °F), condense and icing not permissible		
Pulse frequency	4.000 kHz			
Output frequency for vector control	0 240 Hz	Closed-loop c	ontrol tech	niques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / paramet	erizable	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)		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

300 s cycle time

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

Communication

PROFIBUS DP

Communication



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03	L3210 TRL22 001 T		Figure simila	
Mechanical data		Connections		
Degree of protection	IP20 / UL open type	Signal cable		
Size	FSC	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
Net weight	4.40 kg (9.70 lb)	Line side		
Width	140 mm (5.51 in)	Version	Plug-in screw terminals	
Height	295 mm (11.61 in)	Conductor cross-section	6.00 16.00 mm ² (AWG 10 AWG 6)	
Depth	203 mm (7.99 in)	Motor end		
Inputs / outputs		Version	Plug-in screw terminals	
Standard digital inputs		Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)	
Number	6	DC link (for braking resistor)		
Switching level: 0→1	11 V	Version	Plug-in screw terminals	
Switching level: 1→0	5 V	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)	
Max. inrush current	15 mA	Line length, max.	15 m (49.21 ft)	
Fail-safe digital inputs		PE connection	On housing with M4 screw	
Number	1	Max. motor cable length	J	
Digital outputs		Shielded	150 m (492.13 ft)	
Number as relay changeover contact	1	Unshielded	150 m (492.13 ft)	
Output (resistive load)	DC 30 V, 0.5 A	Standards		
Number as transistor	1	Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
Output (resistive load)	DC 30 V, 0.5 A		EMC Directive 2004/108/EC, Low-Voltage	
Analog / digital inputs		CE marking	Directive 2006/95/EC	
Number	1 (Differential input)			
Resolution	10 bit			
Switching threshold as digital in	out			
0→1	4 V			
1→0	1.6 V			

PTC/ KTY interface

Analog outputs

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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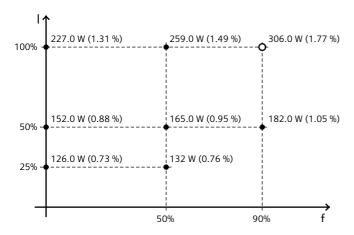
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Figure similar

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