

# **MLFB-Ordering data**

6SL3210-1KE22-6AB1



Figure similar

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

Remarks :	'	rioject.		
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 dB	
Rated current (LO)	33.00 A	Power loss	0.35 kW	
Rated current (HO)	24.10 A	Ambient conditions		
Output		Alliblein	Conditions	
Number of phases	3 AC	Cooling	Air cooling using an integrated fan	
Rated voltage	400 V	Cooling air requirement	0.019 m3/c (0.626 ft3/c)	
Rated power IEC 400V (LO)	11.00 kW	Cooling air requirement	0.018 m³/s (0.636 ft³/s)	
Rated power NEC 480V (LO)	15.00 hp	Installation altitude	1000 m (3280.84 ft)	
Rated power IEC 400V (HO)	7.50 kW	Ambient temperature		
Rated power NEC 480V (HO)	10.00 hp	Operation	-10 40 °C (14 104 °F)	
Rated current (IN)	26.00 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (LO)	25.00 A	Storage	-40 70 °C (-40 158 °F)	
Rated current (HO)	16.50 A	Relative humidity		
Max. output current	33.00 A	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
Pulse frequency	4.000 kHz			
Output frequency for vector control	0 240 Hz	Closed-loop co	ontrol techniques	
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / paramete	<b>erizable</b> Yes	
		V/f with flux current control (FCC	Yes	
		V/f ECO linear / square-law	Yes	
Overload capability		Sensorless vector control	Yes	
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		Vector control, with sensor	No	
		Encoderless torque control	No	
High Overload (HO)		Torque control, with encoder	No	
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

RS485



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03	L3210-TREZZ-OABT		Figure s
Mechanical	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 1
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 mm² (AWG 10 AWG
Depth	203 mm (7.99 in)	Motor end	
Inputs / out	tputs	Version	Plug-in screw terminals
tandard digital inputs		Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG
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
Max. inrush current	15 mA	Line length, max.	15 m (49.21 ft)
ail-safe digital inputs		PE connection	On housing with M4 screw
Number	1	Max. motor cable length	
igital 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	S	tandards
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-Volt Directive 2006/95/EC
nalog / digital inputs		CE marking	
Number	1 (Differential input)		
Resolution	10 bit		
witching threshold as digital in	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, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy  $\pm 5~^{\circ}\text{C}$ 



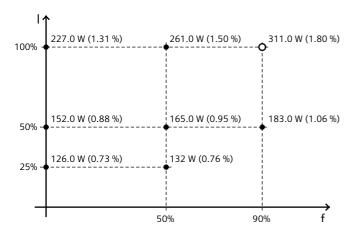
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Figure similar

#### Converter losses to EN 50598-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-66.85 %



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