

## **MLFB-Ordering data**

6SL3210-1KE22-6UB1



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

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Rated data		General tech. specifications			
Input		Power factor λ	0.70	0.85	
Number of phases	3 AC	Offset factor cos φ	0.95	i	
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	i kW	
Rated current (HO)	24.10 A	Filter class (integrated)	Unfi	ltered	
Output		Amhien	t condition	c	
Number of phases	3 AC	Ambien	Condition	<u> </u>	
Rated voltage	400 V	Cooling	Air cooling	using an integrated fan	
Rated power IEC 400V (LO)	11.00 kW				
Rated power NEC 480V (LO)	15.00 hp	Cooling air requirement	0.018 m³/s	(0.636 ft³/s)	
Rated power IEC 400V (HO)	7.50 kW	Installation altitude	1000 m (3	280.84 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	C (-40 158 °F)	
Rated current (HO)	16.50 A	Storage	-40 70 °	C (-40 158 °F)	
Max. output current	33.00 A	Relative humidity			
	4 kHz	M		95 % At 40 °C (104 °F), condensation and icing not permissible	
Pulse frequency	4 KDZ	Max. operation	and icing n		
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 / parameterizable Yes			
. , , , , , , , , , , , , , , , , , , ,				Yes	
		V/f with flux current control (FCC	<b>E)</b>	Yes	
Overload capability		V/f ECO linear / square-law		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

Sensorless vector control

Vector control, with sensor

**Encoderless torque control** 

Torque control, with encoder

Yes

No

No

No



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			Figure s	
Mechanical data		Com	Communication	
Degree of protection	IP20 / UL open type	Communication	USS/MODBUS RTU	
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 10	
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 6	
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 6	
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	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-Volt 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)



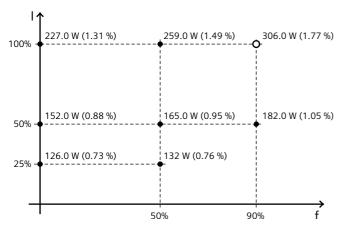
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Figure similar

## 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