

# **MLFB-Ordering data**

6SL3210-1KE22-6AP1



Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. : Consignment no. : Project :

3 AC
380 480 V +10 % -20 %
47 63 Hz
33.00 A
24.10 A
3 AC
400 V
11.00 kW
15.00 hp
7.50 kW
10.00 hp
25.00 A
16.50 A
26.00 A
33.00 A
4 kHz
0 240 Hz
0 550 Hz

Overload capability	l capability
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### 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				
	0.70			
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)	Class A			

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				

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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			Fig
Mechanical data		Com	nmunication
Degree of protection	IP20 / UL open type	Communication	PROFIBUS DP
Size	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 AV
Height	295 mm (11.61 in)	Line side	
Depth	203 mm (7.99 in)	Version	Plug-in screw terminals
Inputs / ou	tputs	Conductor cross-section	6.00 16.00 mm² (AWG 10 A
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 A
Switching level: 1→0	5 V	DC link (for braking resistor)	)
Max. inrush current	15 mA	Version	Plug-in screw terminals
Fail-safe digital inputs		Conductor cross-section	6.00 16.00 mm² (AWG 10 A
Number	1	Line length, max.	15 m (49.21 ft)
Digital outputs		PE connection	On housing with M4 screw
Number as relay changeover contact	1	Max. motor cable length	Off flouring with MF screw
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	tandards
Analog / digital inputs	,	Compliance with standards	UL, cUL, CE, C-Tick (RCM)
Number	1 (Differential input)	compliance with standards	ot, cot, ce, c-rick (rcivi)
Resolution	10 bit	CE marking	EMC Directive 2004/108/EC, Low Directive 2006/95/EC
Switching threshold as digital in	put		
-			
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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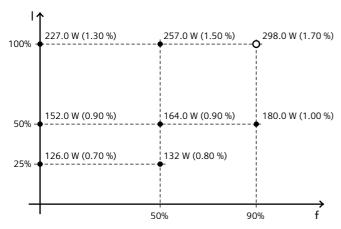
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Figure similar

## Converter losses to IEC61800-9-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	33.20 %



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 IEC61800-9-2) 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