

# MLFB-Ordering data

6SL3210-1KE11-8AP2



Figure similar

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

Item no.: Consignment no. : Project:

Max. operation

3 AC 380 480 V +10 % -20 % 47 63 Hz 2.30 A 1.90 A
380 480 V +10 % -20 % 47 63 Hz 2.30 A 1.90 A
47 63 Hz 2.30 A 1.90 A
2.30 A 1.90 A
1.90 A
2.40
2.46
3 AC
400 V
0.55 kW
0.75 hp
0.37 kW
0.50 hp
1.70 A
1.30 A
1.80 A
2.60 A
4 kHz
0 240 Hz
0 550 Hz

Overload ca	apability
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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			
D forth .	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)	49 dB		
Power loss	0.03 kW		
Filter class (integrated)	Class A		

Ambient conditions				
Cooling	Air cooling using an integrated fan			
Cooling air requirement	0.005 m³/s (0.177 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		

95 % At 40 °C (104 °F), condensation

and icing not permissible



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			Figur
Mechanical data		Com	nmunication
Degree of protection	IP20 / UL open type	Communication	PROFIBUS DP
Size	FSAA	Co	nnections
Net weight	1.40 kg (3.09 lb)	Signal cable	
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG
Height	173 mm (6.81 in)	Line side	
Depth	155 mm (6.10 in)	Version	Plug-in screw terminals
Inputs / out	tputs	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG
tandard digital inputs		Motor end	
Number	6	Version	Plug-in screw terminals
Switching level: 0→1	11 V	Conductor cross-section	1.00 2.50 mm² (AWG 18 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	1.00 2.50 mm² (AWG 18 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	On Housing with MH screw
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)
Number as transistor	1	Unshielded	100 m (328.08 ft)
Output (resistive load)	DC 30 V, 0.5 A	S	tandards
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-Vo Directive 2006/95/EC
witching 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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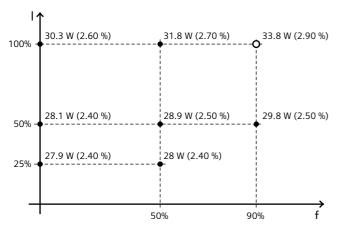
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Figure similar

# Converter losses to IEC61800-9-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	26.10 %



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