

#### MLFB-Ordering data

6SL3210-1KE11-8AP1



Figure similar

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

Item no.: Consignment no. : Project:

Rated data			
nput			
Number of phases	3 AC		
Line voltage	380 480 V +10 % -20 %		
Line frequency	47 63 Hz		
Rated current (LO)	2.30 A		
Rated current (HO)	1.90 A		
Output			
Number of phases	3 AC		
Rated voltage	400 V		
Rated power IEC 400V (LO)	0.55 kW		
Rated power NEC 480V (LO)	0.75 hp		
Rated power IEC 400V (HO)	0.37 kW		
Rated power NEC 480V (HO)	0.50 hp		
Rated current (IN)	1.80 A		
Rated current (LO)	1.70 A		
Rated current (HO)	1.30 A		
Max. output current	2.60 A		
Pulse frequency	4 kHz		
Output frequency for vector control	0 240 Hz		
Output frequency for V/f control	0 550 Hz		

Overload 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			
Power factor λ	0.70 0.85		
Offset factor cos φ	0.95		
Efficiency η	0.97		
Sound pressure level (1m)	52 dB		
Power loss	0.04 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		

Max. operation

95 % At 40 °C (104 °F), condensation

and icing not permissible



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Mechanical data		Communication	
Degree of protection	IP20 / UL open type	Communication	PROFIBUS DP
Size	FSA	Connections	
Net weight	1.70 kg (3.75 lb)	Signal cable	
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
Height	196 mm (7.72 in)	Line side	
Depth	203 mm (7.99 in)	Version	Plug-in screw terminals
Inputs / ou	tputs	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)
Standard 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 14)
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	1.00 2.50 mm² (AWG 18 AWG 14)
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	On Housing with M4 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	Standards	
Analog / 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-Voltage Directive 2006/95/EC
Switching threshold as digital in	put		
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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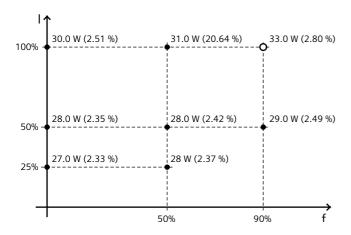
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# Figure similar

# Converter losses to EN 50598-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-78.80 %



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