

# **MLFB-Ordering data**

6SL3210-1KE12-3AB2



Figure similar

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

ltem no. :
Consignment no. :
Project :

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)	49 dB
Rated current (LO)	2.90 A	Power loss	0.04 kW
Rated current (HO)	2.50 A	Filter class (integrated)	Class A
Output		Ambient	conditions
Number of phases	3 AC	Ambient	conditions
Rated voltage	400 V	Cooling	Air cooling using an integrated fan
Rated power IEC 400V (LO)	0.75 kW	Cooling air requirement	$0.005 m^{3} l_{2} (0.177 ft^{3} l_{2})$
Rated power NEC 480V (LO)	1.00 hp	Cooling air requirement	0.005 m <sup>3</sup> /s (0.177 ft <sup>3</sup> /s)
Rated power IEC 400V (HO)	0.55 kW	Installation altitude	1000 m (3280.84 ft)
Rated power NEC 480V (HO)	0.75 hp	Ambient temperature	
Rated current (IN)	2.30 A	Operation	-10 40 °C (14 104 °F)
Rated current (LO)	2.20 A	Transport	-40 70 ℃ (-40 158 °F)
Rated current (HO)	1.70 A	Storage	-40 70 °C (-40 158 °F)
Max. output current	3.40 A	Relative humidity	
Pulse frequency	4 kHz	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible
Output frequency for vector control	0 240 Hz		
	0 2 10 112	Closed-loop control techniques	
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parameterizable Yes	
		V/f with flux current control (FCC)	Yes
Overload capability		V/f ECO linear / square-law	Yes
Low Overload (LO)		Sensorless vector control	Yes

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

Vector control, with sensor



No



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			Figure	
Mechanical data		Com	Communication	
Degree of protection	IP20 / UL open type	Communication	USS/MODBUS RTU	
Size	FSAA	Connections		
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 / outputs		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 M4 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	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-Vo Directive 2006/95/EC	
witching threshold as digital in	put			
0→1	4 V			

# Analog outputs

Number

1→0

1 (Non-isolated output)

1.6 V

### PTC/ KTY interface

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy  $\pm 5~^\circ\mathrm{C}$ 





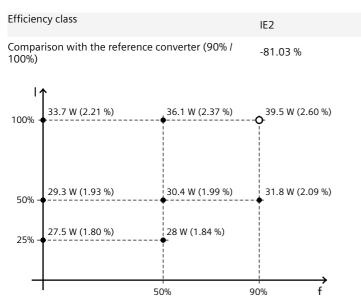
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Figure similar

Converter losses to EN 50598-2\*



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

