

# **MLFB-Ordering data**

6SL3210-1KE11-8AB2



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
nput		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)	2.30 A	Power loss	0.03 kW	
Rated current (HO)	1.90 A	Filter class (integrated)	Class A	
Dutput		Amhia		
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air cooling using an integrated fan	
Rated power IEC 400V (LO)	0.55 kW			
Rated power NEC 480V (LO)	0.75 hp	Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Rated power IEC 400V (HO)	0.37 kW	Installation altitude	1000 m (3280.84 ft)	
Rated power NEC 480V (HO)	0.50 hp	Ambient temperature		
Rated current (LO)	1.70 A	Operation	-10 40 °C (14 104 °F)	
Rated current (HO)	1.30 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (IN)	1.80 A	Storage	-40 70 °C (-40 158 °F)	
Max. output current	2.60 A	Relative humidity		
Pulse frequency	4 kHz	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
	0 240 11-			
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 / parame	eterizable Yes	
		V/f with flux current control (F	CC) 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		Vector control, with sensor	No	
		Encoderless torque control	No	

#### 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

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

Torque control, with encoder

No



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Figure similar **Mechanical data** Communication Degree of protection IP20 / UL open type **USS/MODBUS RTU** Communication 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 mm<sup>2</sup> (AWG 24 ... AWG 16) 173 mm (6.81 in) Height Line side Depth 155 mm (6.10 in) Version Plug-in screw terminals Inputs / outputs Conductor cross-section 1.00 ... 2.50 mm<sup>2</sup> (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 mm<sup>2</sup> (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 mm<sup>2</sup> (AWG 18 ... AWG 14) Number 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 **Output (resistive load)** DC 30 V, 0.5 A Shielded 50 m (164.04 ft) Number as transistor Unshielded 100 m (328.08 ft) 1 **Standards** Output (resistive load) DC 30 V, 0.5 A Analog / digital inputs Compliance with standards UL, cUL, CE, C-Tick (RCM) Number 1 (Differential input) EMC Directive 2004/108/EC, Low-Voltage **CE** marking Resolution 10 bit Directive 2006/95/EC Switching threshold as digital input 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  $\pm 5\ ^\circ C$ 



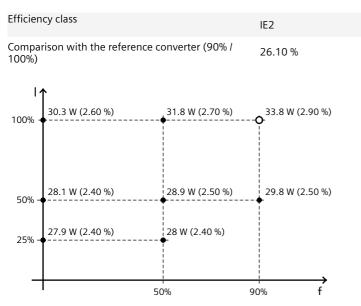
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Figure similar

Converter losses to IEC61800-9-2\*



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 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