

## **MLFB-Ordering data**

6SL3210-1KE18-8AB1



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

Item no.: Consignment no. : Project:

Rated da	ta
nput	
Number of phases	3 AC
Line voltage	380 480 V +10 % -20 %
Line frequency	47 63 Hz
Rated current (LO)	11.40 A
Rated current (HO)	10.60 A
Output	
Number of phases	3 AC
Rated voltage	400 V
Rated power IEC 400V (LO)	4.00 kW
Rated power NEC 480V (LO)	5.00 hp
Rated power IEC 400V (HO)	3.00 kW
Rated power NEC 480V (HO)	4.00 hp
Rated current (IN)	9.00 A
Rated current (LO)	8.80 A
Rated current (HO)	7.30 A
Max. output current	14.60 A
Pulse frequency	4.000 kHz
Output frequency for vector control	0 240 Hz
Output frequency for V/f control	0 550 Hz

Overload capabi	lity
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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 0.15 kW		

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			
	95 % At 40 °C (104 °F), condensation		

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	

Max. operation

and icing not permissible



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L3210-1KE18-8AB1		Figure	
Mechanical data		Connections	
IP20 / UL open type	Signal cable		
FSA	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 1	
1.70 kg (3.75 lb)	Line side		
73 mm (2.87 in)	Version	Plug-in screw terminals	
196 mm (7.72 in)	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 1	
203 mm (7.99 in)	Motor end		
tputs	Version	Plug-in screw terminals	
	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 1	
6	DC link (for braking resistor)	)	
11 V	Version	Plug-in screw terminals	
5 V	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 1	
15 mA	Line length, max.	15 m (49.21 ft)	
	PE connection	On housing with M4 screw	
1	Max. motor cable length	_	
	Shielded	150 m (492.13 ft)	
1	Unshielded	150 m (492.13 ft)	
DC 30 V, 0.5 A	S	tandards	
1	Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
DC 30 V, 0.5 A		FMC D: v: 2004/400/FC   V	
	CE marking	EMC Directive 2004/108/EC, Low-Volt Directive 2006/95/EC	
1 (Differential input)			
10 bit			
put			
4 V			
	Cata   IP20 / UL open type   FSA   1.70 kg (3.75 lb)   73 mm (2.87 in)   196 mm (7.72 in)   203 mm (7.99 in)   Eputs   6   11 V   5 V   15 mA   1   1   DC 30 V, 0.5 A   1   DC 30 V, 0.5 A   1   DC 30 V, 0.5 A   1 (Differential input)   10 bit   Dut   Dut	Compliance with standards   Compliance with standards	

# 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)



## **MLFB-Ordering data**

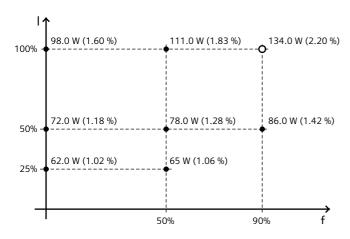
6SL3210-1KE18-8AB1



Figure similar

## Converter losses to EN 50598-2\*

Efficiency class	IE2
Comparison with the reference converter (90% /	-65.57 %



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