

# **MLFB-Ordering data**

6SL3210-1KE23-8UB1



Client order no. : Item no.: Order no. : Consignment no. : Offer no. : Project :

Remarks :				
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)	66 d	В
Rated current (LO)	48.20 A	Power loss	0.50	kW
Rated current (HO)	45.20 A	Ambient conditions		
Output		Alliblei	Condition	5
Number of phases	3 AC	Cooling	Air cooling	using an integrated fan
Rated voltage	400 V	Cooling air requirement	0.019 m3/s	(0.636 ft³/s)
Rated power IEC 400V (LO)	18.50 kW			·
Rated power NEC 480V (LO)	25.00 hp	Installation altitude	1000 m (3	280.84 π)
Rated power IEC 400V (HO)	15.00 kW	Ambient temperature		
Rated power NEC 480V (HO)	20.00 hp	Operation	-10 40 °C	C (14 104 °F)
Rated current (IN)	38.00 A	Transport	-40 70 °C	C (-40 158 °F)
Rated current (LO)	37.00 A	Storage	-40 70 °C	C (-40 158 °F)
Rated current (HO)	31.00 A	Relative humidity		
Max. output current	62.00 A	95 % At 40 °C (104 °F), condensa Max. operation and icing not permissible		
Pulse frequency	4.000 kHz			
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 / parameterizable Yes		Yes
		V/f with flux current control (FC	C)	Yes
		V/f ECO linear / square-law		Yes
Overload capability		Sensorless vector control		Yes
Low Overload (LO)		Vector control, with sensor		No
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		Encoderless torque control		No
High Overload (HO)		Torque control, with encoder		No
200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time		Communication		

300 s cycle time

Communication

RS485



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03	L3210-1KE23-80B1		Figure s		
Mechanical data		Co	Connections		
Degree of protection	IP20 / UL open type	Signal cable			
Size	FSC	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16		
Net weight	4.40 kg (9.70 lb)	Line side			
Width	140 mm (5.51 in)	Version	Plug-in screw terminals		
Height	295 mm (11.61 in)	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6		
Depth	203 mm (7.99 in)	Motor end			
Inputs / outputs		Version	Plug-in screw terminals		
tandard digital inputs		Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6		
Number	6	DC link (for braking resistor)	)		
Switching level: 0→1	11 V	Version	Plug-in screw terminals		
Switching level: 1→0	5 V	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG		
Max. inrush current	15 mA	Line length, max.	15 m (49.21 ft)		
ail-safe digital inputs		PE connection	On housing with M4 screw		
Number	1	Max. motor cable length			
igital outputs		Shielded	150 m (492.13 ft)		
Number as relay changeover contact	1	Unshielded	150 m (492.13 ft)		
Output (resistive load)	DC 30 V, 0.5 A	S	Standards		
Number as transistor	1	Compliance with standards	UL, cUL, CE, C-Tick (RCM)		
Output (resistive load)	DC 30 V, 0.5 A				
nalog / digital inputs		CE marking	EMC Directive 2004/108/EC, Low-Vo Directive 2006/95/EC		
Number	1 (Differential input)				
Resolution	10 bit				
witching threshold as digital in	out				
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)



#### **MLFB-Ordering data**

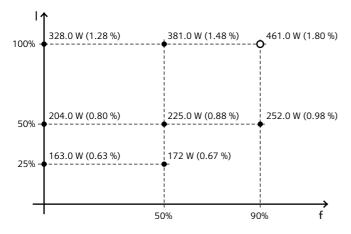
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Figure similar

#### Converter losses to EN 50598-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-64.36 %



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