

## **MLFB-Ordering data**

6SL3210-1KE21-7AF1

Figure similar

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

Item 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)	63 dB
Rated current (LO)	21.50 A	Power loss	0.24 kW
Rated current (HO)	18.20 A	Filter class (integrated)	Class A
Dutput		-	
Number of phases	3 AC	Ambier	nt conditions
Rated voltage	400 V	Cooling	Air cooling using an integrated fan
Rated power IEC 400V (LO)	7.50 kW		
Rated power NEC 480V (LO)	10.00 hp	Cooling air requirement	0.009 m³/s (0.318 ft³/s)
Rated power IEC 400V (HO)	5.50 kW	Installation altitude	1000 m (3280.84 ft)
Rated power NEC 480V (HO)	7.50 hp	Ambient temperature	
Rated current (IN)	17.00 A	Operation	-10 40 °C (14 104 °F)
Rated current (LO)	16.50 A	Transport	-40 70 °C (-40 158 °F)
Rated current (HO)	12.50 A	Storage	-40 70 °C (-40 158 °F)
Max. output current	25.00 A	Relative humidity	
Pulse frequency	4 kHz	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible
	0 24011		
Output frequency for vector control	0 240 Hz	Closed-loop o	control techniques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parame	terizable Yes
		V/f with flux current control (FC	CC) Yes
verload 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

Encoderless torque control

Torque control, with encoder

No

No



### **MLFB-Ordering data**

6SL3210-1KE21-7AF1

Mechanical data		Com	Communication	
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP	
Size	FSB	Connections		
Net weight	2.30 kg (5.07 lb)	Signal cable		
Width	100 mm (3.94 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 1	
Height	196 mm (7.72 in)	Line side		
Depth	208 mm (8.19 in)	Version	Plug-in screw terminals	
Inputs / outputs		Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 1	
tandard digital inputs		Motor end		
Number	6	Version	Plug-in screw terminals	
Switching level: 0→1	11 V	Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 1	
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	4.00 6.00 mm² (AWG 12 AWG 1	
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 nousing with wristlew	
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	S	Standards	
nalog / digital inputs		Compliance with standards	UL, cUL, CE, C-Tick (RCM)	
Number	1 (Differential input)			
		CE marking	EMC Directive 2004/108/EC, Low-Volt	

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

0→1

1→0

Number

Analog outputs

**PTC/ KTY interface** 

4 V

1.6 V

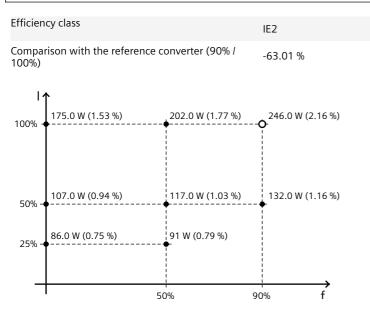
1 (Non-isolated output)



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

#### 6SL3210-1KE21-7AF1

# 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

No image available for this configuration.

Figure similar