

MLFB-Ordering data

6SL3210-1KE23-8UF1



Figure similar

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

Item no. :
Consignment no. :
Project :

	Power factor λ	0.7	0 0.85
3 AC	Offset factor cos φ	0.9	5
380 480 V +10 % -20 %	Efficiency η	0.9	7
47 63 Hz	Sound pressure level (1m)	66	dB
48.20 A	Power loss	0.5	0 kW
45.20 A	Filter class (integrated)	Un	filtered
	-		
3 AC	Ambient conditions		
400 V	Cooling	Air cooling using an integrated fan	
18.50 kW	Casting air ann inseacht	0.010 3	
25.00 hp		0.018 m³/s (0.636 ft³/s)	
15.00 kW		1000 m (:	3280.84 ft)
20.00 hp	· ·		
37.00 A	Operation	-10 40 °C (14 104 °F)	
31.00 A	Transport	-40 70	°C (-40 158 °F)
38.00 A	Storage	-40 70	°C (-40 158 °F)
62.00 A	Relative humidity		
4 kHz	95 % At 40 °C (104 °F), condens Max. operation and icing not permissible		
0 240 Hz	Classed leave sentral to sharing as		
0	Closed-loop c	ontrol teci	niques
0 550 Hz	V/f linear / square-law / paramet	erizable	Yes
	V/f with flux current control (FC	C)	Yes
	V/f ECO linear / square-law		Yes
erload capability ow Overload (LO)			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			No
	Encoderless torque control		No
			No
	47 63 Hz 48.20 A 45.20 A 45.20 A 3 AC 400 V 18.50 kW 25.00 hp 15.00 kW 20.00 hp 15.00 kW 20.00 hp 37.00 A 31.00 A 31.00 A 31.00 A 33.00 A 62.00 A 62.00 A 62.00 A 62.00 A	47 63 Hz Sound pressure level (1m) 48.20 A Power loss 45.20 A Filter class (integrated) 3 AC Armbien 400 V Cooling air requirement 15.00 hp Installation altitude 15.00 hp Operation 37.00 A Transport 31.00 A Storage 38.00 A Relative humidity 62.00 A Max. operation 0 240 Hz Closed-loop control 0 550 Hz V/f linear / square-law / paramet V/f with flux current control (FC) V/f ECO linear / square-law 10 % base load current ILL for 57 s in al Torque control, with sensor Torque control, with sensor Encoderless torque control	47 63 Hz Sound pressure level (1m) 66 48.20 A Power loss 0.5 45.20 A Filter class (integrated) Unit 3 AC Ambient condition 400 V Cooling air requirement 0.018 m² 18.50 kW Cooling air requirement 0.018 m² 25.00 hp Installation altitude 1000 m (3 15.00 kW Ambient temperature 0.018 m² 20.00 hp Operation -10 40 37.00 A Transport -40 70 38.00 A Storage -40 70 62.00 A Yf linear / square-law 95 % At 4 0 240 Hz Closed-loop control tecl od icing 0 550 Hz V/f linear / square-law / parameterizable V/f with flux current control (FCC) V/f with flux current control (FCC) 10 % base load current ILL for 57 s in a Sensorless vector control Vector control, with sensor Encoderless torque control

300 s cycle time



MLFB-Ordering data

6SL3210-1KE23-8UF1



Mechanical data		Com	Communication		
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP		
Size	FSC	Connections			
Net weight	4.40 kg (9.70 lb)	Signal cable			
Width	140 mm (5.51 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16		
Height	295 mm (11.61 in)	Line side			
Depth	208 mm (8.19 in)	Version	Plug-in screw terminals		
Inputs / out	tputs	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)		
Standard digital inputs		Motor end			
Number	6	Version	Plug-in screw terminals		
Switching level: 0→1	11 V	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)		
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	6.00 16.00 mm² (AWG 10 AWG 6)		
Number	1	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	1	Unshielded	150 m (492.13 ft)		
Output (resistive load)	DC 30 V, 0.5 A	Standards			
Analog / 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-Volta Directive 2006/95/EC		
witching threshold as digital in	put				
0→1	4 V				
1→0	1.6 V				
Analog outputs					
Number	1 (Non-isolated output)				
PTC/ KTY interface					

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



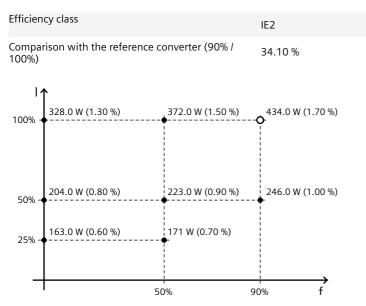
MLFB-Ordering data

6SL3210-1KE23-8UF1



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