

## **MLFB-Ordering data**

6SL3210-1KE23-8AF1



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
Input		Power factor λ	0.7	0 0.85
Number of phases	3 AC	Offset factor cos φ	0.9	5
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	7
Line frequency	47 63 Hz	Sound pressure level (1m)	66	dB
Rated current (LO)	48.20 A	Power loss	0.5	0 kW
Rated current (HO)	45.20 A	Filter class (integrated)	Cla	ss A
Dutput		Ambien		
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air coolin	g using an integrated fan
Rated power IEC 400V (LO)	18.50 kW	Cooling air requirement	0.019 m3	's (0.636 ft³/s)
Rated power NEC 480V (LO)	25.00 hp			
Rated power IEC 400V (HO)	15.00 kW	Installation altitude	1000 m (:	3280.84 ft)
Rated power NEC 480V (HO)	20.00 hp	Ambient temperature	40 40	
Rated current (IN)	38.00 A	Operation _		°C (14 104 °F)
Rated current (LO)	37.00 A	Transport		°C (-40 158 °F)
Rated current (HO)	31.00 A	Storage	-40 70	°C (-40 158 °F)
Max. output current	62.00 A	Relative humidity		
Pulse frequency	4 kHz	Max. operation		0 °C (104 °F), condensatic not permissible
Output frequency for vector control	0 240 Hz			
		Closed-loop c	ontrol tec	nniques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parame	terizable	Yes
		V/f with flux current control (FC	C)	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		Vector control, with sensor		No
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	Torque control, with encoder		NO

300 s cycle time



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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  $\pm 5~^\circ\mathrm{C}$ 

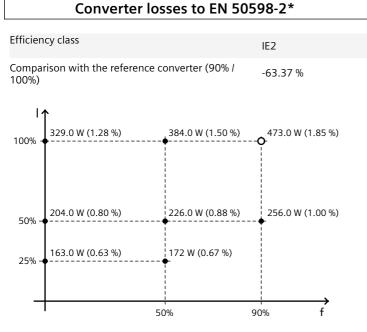


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The percentage values show the losses in relation to the rated apparent power of the converter.

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