

## **MLFB-Ordering data**

6SL3210-1KE31-1AF1



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data		General tech. specifications		
Input		Power factor λ	0.9	90 0.95
Number of phases	3 AC	Offset factor cos φ	0.9	99
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	98
Line frequency	47 63 Hz	Sound pressure level (1m)	71	dB
Rated current (LO)	96.00 A	Power loss	1.5	55 kW
Rated current (HO)	85.00 A	Filter class (integrated)	Cla	iss A
Output		-		
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air coolin	g using an integrated fan
Rated power IEC 400V (LO)	55.00 kW	Cooling air requirement	0 083 m <sup>3</sup>	/s (2.931 ft³/s)
Rated power NEC 480V (LO)	60.00 hp	Installation altitude		
Rated power IEC 400V (HO)	45.00 kW		1000 m (:	3280.84 ft)
Rated power NEC 480V (HO)	50.00 hp	Ambient temperature		
Rated current (IN)	103.00 A	Operation		°C (-4 104 °F)
Rated current (LO)	103.00 A	Transport		°C (-40 158 °F)
Rated current (HO)	83.00 A	Storage	-40 70	°C (-40 158 °F)
Max. output current	165.00 A	Relative humidity		
Pulse frequency	4 kHz	Max. operation	95 % RH,	condensation not permitted
Output frequency for vector control	0 240 Hz			
		Closed-loop co	ontrol tec	hniques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / paramete	erizable	Yes
		V/f with flux current control (FCC	<b>.</b> )	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			No
300 s cycle time		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		Torque control, with encoder		No

300 s cycle time



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Figure similar

reeFSEConneet weight28.50 kg (62.83 lb)Signal cableidth275 mm (10.83 in)Conductor cross-section0.sight551 mm (21.69 in)Line sideepth237 mm (9.33 in)Versionsc	ROFINET, EtherNet/IP ections 15 1.50 mm² (AWG 24
et weight       28.50 kg (62.83 lb)       Signal cable         idth       275 mm (10.83 in)       Conductor cross-section       0.         sight       551 mm (21.69 in)       Line side       Version       sc	
idth275 mm (10.83 in)Conductor cross-section0.sight551 mm (21.69 in)Line sideepth237 mm (9.33 in)Versionsc	15 1.50 mm² (AWG 24
sight551 mm (21.69 in)Line sideepth237 mm (9.33 in)Versionsc	15 1.50 mm² (AWG 24
epth 237 mm (9.33 in) Version sc	
Inputs / outputs Conductor cross-section 25	rew-type terminal
· · ·	5.00 70.00 mm² (AWG
ndard digital inputs Motor end	
umber 6 Version Sc	crew-type terminals
vitching level: 0→1 11 V Conductor cross-section 25	5.00 70.00 mm² (AWG
vitching level: $1 \rightarrow 0$ 5 V DC link (for braking resistor)	
ax. inrush current 15 mA Version Sc	crew-type terminals
-safe digital inputs	5.00 70.00 mm² (AWG
imber 1	D m (32.81 ft)
ital outputs	
PE connection         Sc           umber as relay changeover contact         1         Max. motor cable length	crew-type terminals
	00 m (656.17 ft)
·	00 m (984.25 ft)
	dards
alog / digital inputs	
Imber 1 (Differential input) Compliance with standards UI	L, cUL, CE, C-Tick (RCM)
En E	MC Directive 2004/108/E irective 2006/95/EC
itching threshold as digital input	
→1 4 V	
→ <b>0</b> 1.6 V	
alog outputs	
Imber 1 (Non-isolated output)	
(TY interface	

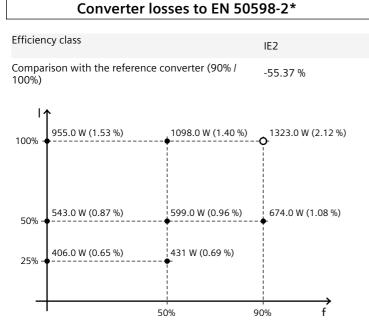
1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy  $\pm 5~^\circ\mathrm{C}$ 



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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