

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

6SL3210-1KE32-1AF1



 Client order no.:
 Item no.:

 Order no.:
 Consignment no.:

 Offer no.:
 Project:

Remarks :			
Rated data		General tech. specifications	
Input		Power factor λ	0.90 0.95
Number of phases	3 AC	Offset factor cos φ	0.99
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.99
Line frequency	47 63 Hz	Sound pressure level (1m)	68 dB
Rated current (LO)	187.00 A	Power loss	1.83 kW
Rated current (HO)	169.00 A	Filter class (integrated)	Class A
Output		Ambian	t conditions
Number of phases	3 AC	Ambien	t conditions
Rated voltage	400 V	Cooling	Air cooling using an integrated fan
Rated power IEC 400V (LO)	110.00 kW		
Rated power NEC 480V (LO)	125.00 hp	Cooling air requirement	0.153 m³/s (5.403 ft³/s)
Rated power IEC 400V (HO)	90.00 kW	Installation altitude	1000 m (3280.84 ft)
Rated power NEC 480V (HO)	100.00 hp	Ambient temperature	
Rated current (LO)	201.00 A	Operation	-20 40 °C (-4 104 °F)
Rated current (HO)	164.00 A	Transport	-40 70 °C (-40 158 °F)
Rated current (IN)	201.00 A	Storage	-40 70 °C (-40 158 °F)
Max. output current	328.00 A	Relative humidity	
Pulse frequency	2 kHz	Max. operation	95 % RH, condensation not permitted
Output frequency for vector control	0 240 Hz	Closed lean s	antral tachniques
Output frequency for V/f control	0 550 Hz	Closed-100p C	ontrol techniques
output frequency for vir control	0 330 Hz	V/f linear / square-law / paramet	<b>cerizable</b> 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 300 s cycle time		Vector control, with sensor	No
		Encoderless torque control	No
High Overload (HO)			

300 s cycle time

200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a

No

Torque control, with encoder



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			Figure similar
Mechanical data		Communication	
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP
Size	FSF	Connections	
Net weight	65.50 kg (144.40 lb)	Signal cable	
Width	305 mm (12.01 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
Height	708 mm (27.87 in)	Line side	
Depth	357 mm (14.06 in)	Version	screw-type terminal
Inputs / outputs		Conductor cross-section	35.00 120.00 mm² (AWG 2 AWG -3)
Standard digital inputs		Motor end	
Number	6	Version	Screw-type terminals
Switching level: 0→1	11 V	Conductor cross-section	35.00 120.00 mm² (AWG 2 AWG -3)
Switching level: 1→0	5 V	DC link (for braking resistor)	
Max. inrush current	15 mA	Version	Screw-type terminals
Fail-safe digital inputs		Conductor cross-section	35.00 120.00 mm² (AWG 2 AWG -3)
Number	1	Line length, max.	10 m (32.81 ft)
Digital outputs		-	, , ,
Number as relay shangeover centast	1	PE connection	Screw-type terminals
Number as relay changeover contact	ı	Max. motor cable length	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	300 m (984.25 ft)
Number as transistor	1	Unshielded	450 m (1476.38 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-Voltage Directive 2006/95/EC

# Switching threshold as digital input

0→1	4 V
1→0	1.6 V

#### **Analog outputs**

	4.01
Number	1 (Non-isolated output)

## PTC/ KTY interface

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



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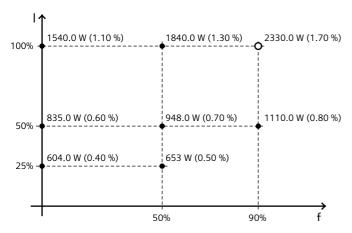
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Figure similar

### Converter losses to IEC61800-9-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	40.80 %



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