

# **MLFB-Ordering data**

6SL3210-1KE32-1AF1



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

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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		Ambione	t conditions
Number of phases	3 AC	Ambieni	conditions
Rated voltage	400 V	Cooling	Air cooling using an integrated fan
Rated power IEC 400V (LO)	110.00 kW	Casling sings with a second	0.152 21- /5.402 ft21-\
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		1000 m (3280.84 ft)
Rated power NEC 480V (HO)	100.00 hp	Ambient temperature	
Rated current (IN)	201.00 A	Operation	-20 40 °C (-4 104 °F)
Rated current (LO)	201.00 A	Transport	-40 70 °C (-40 158 °F)
Rated current (HO)	164.00 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-loop control techniques	
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / paramete	<b>erizable</b> Yes
		V/f with flux current control (FCC	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

Item no.:

Project :

Consignment no. :

Torque control, with encoder

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

High Overload (HO)

300 s cycle time

No



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Mechanical data		Cor	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 -	
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 -	
Switching level: 1→0	5 V	DC link (for braking resisto	r)	
Max. inrush current	15 mA	Version	Screw-type terminals	
ail-safe digital inputs		Conductor cross-section	35.00 120.00 mm² (AWG 2 AWG -	
Number	1	Line length, max.	10 m (32.81 ft)	
Digital outputs		PE connection	Screw-type terminals	
Number as relay changeover contact	1	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	
witching threshold as digital in	put			
0→1	4 V			

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



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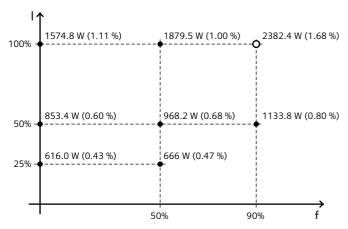
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#### Figure similar

#### Converter losses to EN 50598-2\*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-0.41 %



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

