

## **MLFB-Ordering data**

6SL3210-1KE32-1AF1



Client order no. : Order no. :

Item no.: Consignment no. : Project :

Offer no. :			
Remarks :			

Input       Power factor λ         Number of phases       3 AC       Offset factor cos φ         Line voltage       380 480 V +10 % -20 %       Efficiency η         Line frequency       47 63 Hz       Sound pressure level (1m)         Rated current (LO)       187.00 A       Power loss	. specifications
Number of phases       3 AC       Offset factor cos φ         Line voltage       380 480 V +10 % -20 %       Efficiency η         Line frequency       47 63 Hz       Sound pressure level (1m)         Rated current (LO)       187.00 A       Power loss	
Line voltage       380 480 V +10 % -20 %       Efficiency η         Line frequency       47 63 Hz       Sound pressure level (1m)         Rated current (LO)       187.00 A       Power loss	0.90 0.95
Line frequency 47 63 Hz Sound pressure level (1m)  Rated current (LO) 187.00 A Power loss	0.99
Rated current (LO) 187.00 A Power loss	0.99
Detect comment (10) 160 00 A	68 dB
Rated current (HO) 169.00 A	1.83 kW
Ambient	conditions
Output	
Number of phases 3 AC Cooling	Air cooling using an integrated fan
Rated voltage 400 V Cooling air requirement	0.153 m³/s
Rated power (LO) 110.00 kW Installation altitude	1000 m
Rated power (HO) 90.00 kW 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 4.000 kHz	
Output frequency for vector control 0 240 Hz	95 % RH, condensation not permitted
Output frequency for V/f control 0 550 Hz	ntrol techniques
V/f linear / square-law / parameter	<b>rizable</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
High Overload (HO)  Encoderless torque control	No

200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time

Communication	PROFINET			
Communication				
Torque control, with enc	No			
Encoderiess torque conti	NO			

Page 1 of 2



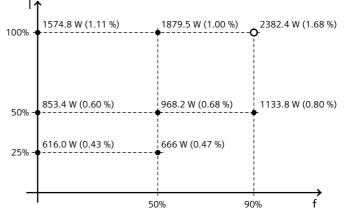
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Mechanica	l data	Cor	Connections				
Degree of protection	IP20 / UL open type	Signal cable					
Size	FSF	Conductor cross-section	0.15 1.50 mm² (24 16 AWG)				
Net weight	65.50 kg	Line side					
Width	305.0 mm	Version	screw-type terminal				
Height	708.0 mm	Conductor cross-section	35.00 120.00 mm² (23 AWG)				
Depth	357.0 mm	Motor end					
Inputs / ou	tputs	Version	Screw-type terminals				
Standard digital inputs		Conductor cross-section	35.00 120.00 mm² (23 AWG)				
Number	6	DC link (for braking resistor)					
Switching level: 0→1	11 V	Version	Screw-type terminals				
Switching level: 1→0	5 V	Conductor cross-section	35.00 120.00 mm² (23 AWG)				
Max. inrush current	15 mA	PE connection	Screw-type terminals				
Fail-safe digital inputs		Max. motor cable length					
Number	1	Shielded	300 m				
Digital outputs		Unshielded	450 m				
Number as relay changeover contact	1	Converter losses to EN 50598-2*					
Output (resistive load)	DC 30 V, 0.5 A	Efficiency class					
Number as transistor	1	,	IE2				
Output (resistive load)	DC 30 V, 0.5 A	Comparison with the reference converter (90% / 100%)					
Analog / digital inputs							
Number	1 (Differential input)	1574.8 W (1.11 %)	1879.5 W (1.00 %)				



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.

## PTC/ KTY interface

Number

**Analog outputs** 

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy ±5 °C

1 (Non-isolated output)

<u> </u>
Standards

Compliance with standards UL, cUL, CE, C-Tick (RCM)

EMC Directive 2004/108/EC, Low-Voltage **CE** marking Directive 2006/95/EC

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

<sup>\*</sup>converted values