

MLFB-Ordering data

6SL3210-1KE32-1AF1



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

Item no. : Consignment no. : Project :

Rated data	3
Input	
Number of phases	3 AC
Line voltage	380 480 V +10 % -20 %
Line frequency	47 63 Hz
Rated current (LO)	187.00 A
Rated current (HO)	169.00 A
Output	
Number of phases	3 AC
Rated voltage	400 V
Rated power IEC 400V (LO)	110.00 kW
Rated power NEC 480V (LO)	125.00 hp
Rated power IEC 400V (HO)	90.00 kW
Rated power NEC 480V (HO)	100.00 hp
Rated current (IN)	201.00 A
Rated current (LO)	201.00 A
Rated current (HO)	164.00 A
Max. output current	328.00 A
Pulse frequency	2.000 kHz
Output frequency for vector control	0 240 Hz
Output frequency for V/f control	0 550 Hz

Overload c	apability
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Low Overload (LO)

 $150\ \%$ base load current IL for 3 s, followed by $110\ \%$ base load current IL for 57 s in a $300\ s$ cycle time

High Overload (HO)

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

General tech. specifications		
Power factor λ	0.90 0.95	
Offset factor cos φ	0.99	
Efficiency η	0.99	
Sound pressure level (1m)	68 dB	
Power loss	1.83 kW	
Filter class (integrated)	Class A	

Ambient conditions		
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.153 m³/s (5.403 ft³/s)	
Installation altitude	1000 m (3280.84 ft)	
Ambient temperature		
Operation	-20 40 °C (-4 104 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-40 70 °C (-40 158 °F)	
Relative humidity		

Max. operation	95 % RH, condensation not permitted

Closed-loop control techniques		
V/f linear / square-law / parameterizable	Yes	
V/f with flux current control (FCC)	Yes	
V/f ECO linear / square-law	Yes	
Sensorless vector control	Yes	
Vector control, with sensor	No	
Encoderless torque control	No	
Torque control, with encoder	No	



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03	LOZIO INLOZ IA		Figure simila
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 / out	tputs	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		PE connection	Screw-type terminals
Number as relay changeover contact	1	Max. motor cable length	Sciew-type terminals
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	S	tandards
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 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 $\pm 5~^{\circ}\text{C}$



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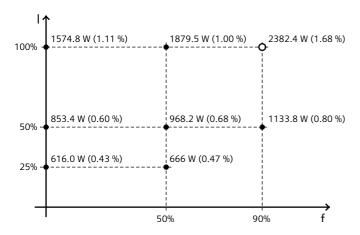
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Figure similar

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