

MLFB-Ordering data

6SL3210-1KE31-4UF1



Client order no. : Item no. :
Order no. : Consignment no. :
Offer no. : Project :
Remarks :

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)	134.00 A	Power loss	1.22 kW
Rated current (HO)	112.00 A	Filter class (integrated)	Unfiltered
Output		_	
Number of phases	3 AC	Ambient conditions	
Rated voltage	400 V	Cooling	Air cooling using an integrated fan
Rated power IEC 400V (LO)	75.00 kW	Cooling air requirement	0.153 m³/s (5.403 ft³/s)
Rated power NEC 480V (LO)	75.00 hp		· · ·
Rated power IEC 400V (HO)	55.00 kW	Installation altitude	1000 m (3280.84 ft)
Rated power NEC 480V (HO)	60.00 hp	Ambient temperature	
Rated current (LO)	136.00 A	Operation	-20 40 °C (-4 104 °F)
Rated current (HO)	103.00 A	Transport	-40 70 °C (-40 158 °F)
Rated current (IN)	136.00 A	Storage	-40 70 °C (-40 158 °F)
Max. output current	206.00 A	Relative humidity	
Pulse frequency	2 kHz	Max. operation 95 % RH, condensation not permit	95 % RH, condensation not permitted
Output frequency for vector control	0 240 Hz		
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 / parameterizable 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)

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

No

Encoderless torque control

Torque control, with encoder



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regree of protection IP20 / UL open type ize FSF Connection IP20 / UL open type ize FSF Connection Signal cable FSF Connection Signal cable FSF Conductor cross-section 0.15 Find the side Version Screw- FSF Conductor cross-section 0.15 Find the side Version Screw- FSF Conductor cross-section 0.15 Find the side Version Screw- FSF Conductor cross-section 0.15 FINDUTS / OUTDUTS CONDUCTOR CROSS-SECTION 0.15 FIND TO STAND TO SCREW- FSF CONDUCTOR CROSS-SECTION 0.15 FIND TO SCREW-	Figure	
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vitching threshold as digital input		
	Directive 2004/108/EC, Low-Vo tive 2006/95/EC	
0→1 4 V		
1 → 0 1.6 V		

PTC/ KTY interface

Number

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

1 (Non-isolated output)



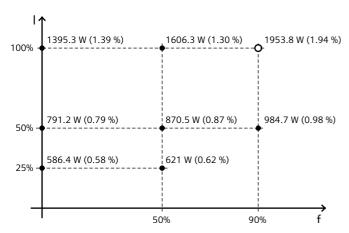
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Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% /	-0.42 %



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