

MLFB-Ordering data

6SL3210-1KE22-6AB1



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

Rated data		General tech. specifications		
Rateu ua	ıla	General tech	n. specific	ations
Input		Power factor λ	0.7	'0 0.85
Number of phases	3 AC	Offset factor cos φ	0.9	95
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	97
Line frequency	47 63 Hz	Sound pressure level (1m)	66	dB
Rated current (LO)	33.00 A	Power loss	0.3	85 kW
Rated current (HO)	24.10 A	Filter class (integrated)	Cla	iss A
Output		Amabian	4	
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air coolin	g using an integrated fan
Rated power IEC 400V (LO)	11.00 kW		0.010	. (0.635 (c))
Rated power NEC 480V (LO)	15.00 hp	Cooling air requirement		/s (0.636 ft³/s)
Rated power IEC 400V (HO)	7.50 kW	Installation altitude	1000 m (3280.84 ft)
Rated power NEC 480V (HO)	10.00 hp	Ambient temperature		
Rated current (IN)	26.00 A	Operation		°C (14 104 °F)
Rated current (LO)	25.00 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (HO)	16.50 A	Storage	-40 70	°C (-40 158 °F)
Max. output current	33.00 A	Relative humidity		
Pulse frequency	4 kHz	May operation	95 % At 40 °C (104 °F), condensation and icing not permissible	
ruise frequency	T KI IZ	Max. operation		
Output frequency for vector control	0 240 Hz	Closed-loop control techniques		h
		Closed-loop C	ontroi tec	niniques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parameterizable Yes		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

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

Vector control, with sensor

Encoderless torque control

Torque control, with encoder

No

No

No



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			Figu	
Mechanical data		Com	Communication	
egree of protection	IP20 / UL open type	Communication	USS/MODBUS RTU	
ze	FSC	Co	nnections	
let weight	4.40 kg (9.70 lb)	Signal cable		
Width	140 mm (5.51 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG	
leight	295 mm (11.61 in)	Line side		
Depth	203 mm (7.99 in)	Version	Plug-in screw terminals	
Inputs / outputs		Conductor cross-section	6.00 16.00 mm² (AWG 10 AW	
andard digital inputs		Motor end		
Number	6	Version	Plug-in screw terminals	
Switching level: 0→1	11 V	Conductor cross-section	6.00 16.00 mm² (AWG 10 AW	
Switching level: 1→0	5 V	DC link (for braking resistor))	
Max. inrush current	15 mA	Version	Plug-in screw terminals	
ail-safe digital inputs		Conductor cross-section	6.00 16.00 mm² (AWG 10 AW	
Number	1	Line length, max.	15 m (49.21 ft)	
igital outputs		PE connection	On housing with M4 screw	
Number as relay changeover contact	1	Max. motor cable length	3	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)	
Number as transistor	1	Unshielded	150 m (492.13 ft)	
Output (resistive load)	DC 30 V, 0.5 A	S	Standards	
nalog / 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-V Directive 2006/95/EC	
witching threshold as digital in	out			
0→1	4 V			
1→0	1.6 V			
nalog outputs				

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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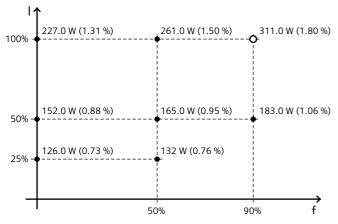
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-66.85 %



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