

MLFB-Ordering data

6SL3210-1KE22-6AF1

No image available for this configuration.

Figure similar

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

Item no.: Consignment no. : Project:

Rated data		General tech. specifications		
Input		Power factor λ	0.70 0.85	
Number of phases	3 AC	Offset factor cos φ	0.95	
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97	
Line frequency	47 63 Hz	Sound pressure level (1m)	66 dB	
Rated current (LO)	33.00 A	Power loss	0.35 kW	
Rated current (HO)	24.10 A	Filter class (integrated)	Class A	
Output				
Number of phases	3 AC	Ambient conditions		
Rated voltage	400 V	Cooling	Air cooling using an inte	egrated fan
Rated power IEC 400V (LO)	11.00 kW		2 2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Rated power NEC 480V (LO)	15.00 hp	Cooling air requirement	0.018 m³/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	-10 40 °C (14 104 °	°F)
Rated current (LO)	25.00 A	Transport	-40 70 °C (-40 158	°F)
		Storage	-40 70 °C (-40 158	°F)
Rated current (HO)	16.50 A	Relative humidity		
Max. output current	33.00 A		27 0/ 1/ 12 02 (12 127)	
Pulse frequency	4 kHz	Max. operation	95 % At 40 °C (104 °F), and icing not permissible	
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 / parame	<b>terizable</b> Yes	
		V/f with flux current control (FG	CC) Yes	

## Overload capability

### 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)

300 s cycle time

Yes

Yes

No

No

No

V/f ECO linear / square-law

Sensorless vector control

Vector control, with sensor

**Encoderless torque control** 

Torque control, with encoder



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			Fig
Mechanical data		Communication	
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP
Size	FSC	Connections	
Net 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 AW
Height	295 mm (11.61 in)	Line side	
Depth	208 mm (8.19 in)	Version	Plug-in screw terminals
Inputs / ou	tputs	Conductor cross-section	6.00 16.00 mm² (AWG 10 AV
tandard 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 AV
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 AV
Number	1	Line length, max.	15 m (49.21 ft)
Digital outputs		PE connection	On housing with M4 screw
Number as relay changeover contact	1	Max. motor cable length	Off flousing with M4 sciew
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	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- Directive 2006/95/EC
Switching threshold as digital in	put		
	4 V		
0→1	+ v		
0→1 1→0	1.6 V		

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

PTC/ KTY interface



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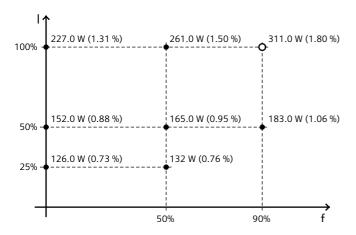
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Figure similar

# Converter losses to EN 50598-2\*





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.

<sup>\*</sup>converted values