

**MLFB-Ordering data** 

6SL3210-1KE17-5UF1

No image available for this configuration.

Figure similar

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

Rated da	ta	
Input		
Number of phases	3 AC	
Line voltage	380 480 V +10 % -20 %	
Line frequency	47 63 Hz	
Rated current (LO)	9.50 A	
Rated current (HO)	8.20 A	
Output		
Number of phases	3 AC	
Rated voltage	400 V	
Rated power IEC 400V (LO)	3.00 kW	
Rated power NEC 480V (LO)	4.00 hp	
Rated power IEC 400V (HO)	2.20 kW	
Rated power NEC 480V (HO)	3.00 hp	
Rated current (IN)	7.50 A	
Rated current (LO)	7.30 A	
Rated current (HO)	5.60 A	
Max. output current	11.20 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 240 Hz	
Output frequency for V/f control	0 550 Hz	

Overload ca	pability
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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. s	General tech. specifications	
Power factor λ	0.70 0.85	
Offset factor cos φ	0.95	
Efficiency η	0.97	
Sound pressure level (1m)	52 dB	
Power loss	0.14 kW	
Filter class (integrated)	Unfiltered	

Ambient	conditions
Cooling	Air cooling using an integrated fan
Cooling air requirement	0.005 m³/s (0.177 ft³/s)
Installation altitude	1000 m (3280.84 ft)
Ambient temperature	
Operation	-10 40 °C (14 104 °F)
Transport	-40 70 °C (-40 158 °F)
Storage	-40 70 °C (-40 158 °F)
Relative humidity	

Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible

Closed-loop control tec	hniques
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	L3210-11C17-3011		
Mechanical data		Com	municati
Degree of protection	IP20 / UL open type	Communication	PROFINET /
Size	FSA	Со	nnections
Net weight	1.70 kg (3.75 lb)	Signal cable	
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50
Height	196 mm (7.72 in)	Line side	
Depth	208 mm (8.19 in)	Version	Plug-in screw
Inputs / out	tputs	Conductor cross-section	1.00 2.50
tandard digital inputs		Motor end	
Number	6	Version	Plug-in screw
Switching level: 0→1	11 V	Conductor cross-section	1.00 2.50
Switching level: 1→0	5 V	DC link (for braking resistor)	)
Max. inrush current	15 mA	Version	Plug-in screw
ail-safe digital inputs		Conductor cross-section	1.00 2.50 r
Number	1	Line length, max.	15 m (49.21 t
igital outputs		PE connection	On housing w
Number as relay changeover contact	1	Max. motor cable length	
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04
Number as transistor	1	Unshielded	150 m (492.1
Output (resistive load)	DC 30 V, 0.5 A	S	tandards
nalog / digital inputs		Compliance with standards	UL, cUL, CE, C
Number	1 (Differential input)		FMC D'
Resolution	10 bit	CE marking	EMC Directive Directive 2006
witching threshold as digital in	put		
0→1	4 V		
1→0	1.6 V		
nalog outputs			
Number	1 (Non-isolated output)		
	. (11011 Isolated output)		

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

PTC/ KTY interface



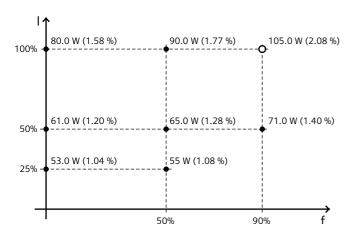
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## Converter losses to EN 50598-2\*

Efficiency class IE2

Comparison with the reference converter (90% / 100%) -69.05 %



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.

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Figure similar

<sup>\*</sup>converted values