

**MLFB-Ordering data** 

6SL3210-1KE18-8AF1

No image available for this configuration.

Figure similar

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

Rated data				
nput				
Number of phases	3 AC			
Line voltage	380 480 V +10 % -20 %			
Line frequency	47 63 Hz			
Rated current (LO)	11.40 A			
Rated current (HO)	10.60 A			
Output				
Number of phases	3 AC			
Rated voltage	400 V			
Rated power IEC 400V (LO)	4.00 kW			
Rated power NEC 480V (LO)	5.00 hp			
Rated power IEC 400V (HO)	3.00 kW			
Rated power NEC 480V (HO)	4.00 hp			
Rated current (IN)	9.00 A			
Rated current (LO)	8.80 A			
Rated current (HO)	7.30 A			
Max. output current	14.60 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. 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	0.15 kW		
Filter class (integrated)	Class A		

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		

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

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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			Figure		
Mechanical data		Com	Communication		
Degree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP		
Size	FSA	Connections			
Net weight	1.70 kg (3.75 lb)	Signal cable			
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG		
Height	196 mm (7.72 in)	Line side			
Depth	225 mm (8.86 in)	Version	Plug-in screw terminals		
Inputs / out	tputs	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG		
tandard digital inputs		Motor end			
Number	6	Version	Plug-in screw terminals		
Switching level: 0→1	11 V	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 1		
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	1.00 2.50 mm² (AWG 18 AWG 1		
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	Off flousing with M4 screw		
Output (resistive load)	DC 30 V, 0.5 A	Shielded	150 m (492.13 ft)		
Number as transistor	1	Unshielded	150 m (492.13 ft)		
Output (resistive load)	DC 30 V, 0.5 A	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-Vol Directive 2006/95/EC		
witching threshold as digital in	put				
0→1	4 V				
1→0	1.6 V				
nalog outputs					
Number	1 (Non-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



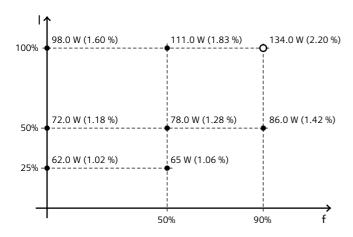
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## Converter losses to EN 50598-2\*

Efficiency class IE2

Comparison with the reference converter (90% / 100%) -65.57 %



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