

MLFB-Ordering data

6SL3210-1KE18-8AF1



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

Item no.: Consignment no. : Project:

Number of phases Line voltage	3 AC
·	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			
Davis of artes	0.70 0.05		
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			

Max. operation	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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Mechanical data			Communication	
Degree of protection	IP20 / UL open type	Communication	on	
Size	FSA	Connections		
Net weight	1.70 kg (3.75 lb)	Signal cable		
Width	73 mm (2.87 in)	Conductor cross-secti	on	
Height	196 mm (7.72 in)	Line side		
Depth	208 mm (8.19 in)	Version		
Inputs / out	puts	Conductor cross-section		
tandard digital inputs		Motor end		
Number	6	Version		
Switching level: 0→1	11 V	Conductor cross-section		
Switching level: 1→0	5 V	DC link (for braking resis	stor)	
Max. inrush current	15 mA	Version		
il-safe digital inputs		Conductor cross-section		
Number	1	Line length, max.		
igital outputs		PE connection		
Number as relay changeover contact	1	Max. motor cable length		
Output (resistive load)	DC 30 V, 0.5 A	Shielded		
Number as transistor	1	Unshielded		
Output (resistive load)	DC 30 V, 0.5 A		S	
nalog / digital inputs		Compliance with standard	ds	
Number	1 (Differential input)			
Resolution	10 bit	CE marking		
Switching threshold as digital inp	out			
0→1	4 V			

PTC/ KTY interface

Analog outputs

1→0

Number

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

1.6 V

1 (Non-isolated output)



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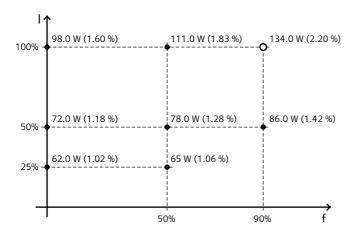
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Figure similar

Converter losses to EN 50598-2*

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

*converted values