

MLFB-Ordering data

6SL3210-1KE18-8AF1



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

Item no.: Consignment no. : Project :

Rated data		General tech. specifications			
	····	General te	en. 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)	52 dB		
Rated current (LO)	11.40 A	Power loss	0.15 kW		
Rated current (HO)	10.60 A	Ambient conditions			
Output		Allible	::it conditions		
Number of phases	3 AC	Cooling	Air cooling using an integrated fan		
Rated voltage	400 V		2 22 21 (2 477 624)		
Rated power IEC 400V (LO)	4.00 kW	Cooling air requirement	0.005 m³/s (0.177 ft³/s)		
Rated power NEC 480V (LO)	5.00 hp	Installation altitude	1000 m (3280.84 ft)		
Rated power IEC 400V (HO)	3.00 kW	Ambient temperature			
Rated power NEC 480V (HO)	4.00 hp	Operation	-10 40 °C (14 104 °F)		
Rated current (IN)	9.00 A	Transport	-40 70 °C (-40 158 °F)		
Rated current (LO)	8.80 A	Storage	-40 70 °C (-40 158 °F)		
Rated current (HO)	7.30 A	Relative humidity			
Max. output current	14.60 A	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible		
Pulse frequency	4.000 kHz				
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 / parameterizable Yes			
		V/f with flux current control (F	FCC) Yes		
		V/f ECO linear / square-law	Yes		
Overload capability		Sensorless vector control	Yes		
Low Overload (LO)		Vector control, with sensor	No		

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

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Communication PROFINET / EtherNet/IP

Encoderless torque control

Torque control, with encoder

No

No



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Mechanical data		Co	Connections		
Degree of protection	IP20 / UL open type	Signal cable			
Size	FSA	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16		
Net weight	1.70 kg (3.75 lb)	Line side			
Width	73 mm (2.87 in)	Version	Plug-in screw terminals		
Height	196 mm (7.72 in)	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14		
Depth	225 mm (8.86 in)	Motor end			
Inputs / outputs		Version	Plug-in screw terminals		
tandard digital inputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 1		
Number	6	DC link (for braking resistor))		
Switching level: 0→1	11 V	Version	Plug-in screw terminals		
Switching level: 1→0	5 V	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 1		
Max. inrush current	15 mA	Line length, max.	15 m (49.21 ft)		
ail-safe digital inputs		PE connection	On housing with M4 screw		
Number	1	Max. motor cable length			
oigital outputs		Shielded	150 m (492.13 ft)		
Number as relay changeover contact	1	Unshielded	150 m (492.13 ft)		
Output (resistive load)	DC 30 V, 0.5 A	S	tandards		
Number as transistor	1	Compliance with standards	UL, cUL, CE, C-Tick (RCM)		
Output (resistive load)	DC 30 V, 0.5 A				
nalog / digital inputs		CE marking	EMC Directive 2004/108/EC, Low-Volt Directive 2006/95/EC		
Number	1 (Differential input)				
Resolution	10 bit				
witching threshold as digital in	put				
0→1	4 V				
4 0					

Analog outputs

1 → 0

Number 1 (Non-isolated output)

PTC/ KTY interface

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

1.6 V



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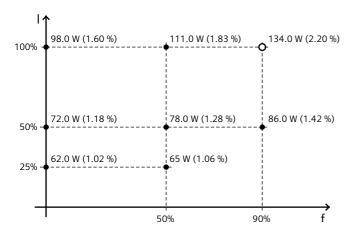
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Figure similar

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