

MLFB-Ordering data

6SL3210-1KE14-3UF2



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

Item no.: Consignment no. : Project:

Rated da	nta	
	····	
Input		
Number of phases	3 AC	
Line voltage	380 480 V +10 % -20 %	
Line frequency	47 63 Hz	
Rated current (LO)	5.50 A	
Rated current (HO)	4.50 A	
Output		
Number of phases	3 AC	
Rated voltage	400 V	
Rated power IEC 400V (LO)	1.50 kW	
Rated power NEC 480V (LO)	2.00 hp	
Rated power IEC 400V (HO)	1.10 kW	
Rated power NEC 480V (HO)	1.50 hp	
Rated current (IN)	4.30 A	
Rated current (LO)	4.10 A	
Rated current (HO)	3.10 A	
Max. output current	6.20 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 240 Hz	
Output frequency for V/f control	0 550 Hz	

Overload	capability
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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)	49 dB	
Power loss	0.06 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 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		Com	ımunication
gree of protection	IP20 / UL open type	Communication	PROFINET / EtherNet/IP
ze	FSAA	Co	nnections
let weight	1.40 kg (3.09 lb)	Signal cable	
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG
Height	173 mm (6.81 in)	Line side	
Depth	160 mm (6.30 in)	Version	Plug-in screw terminals
Inputs / ou	tputs	Conductor cross-section	1.00 2.50 mm² (AWG
andard 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
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
Number	1	Line length, max.	15 m (49.21 ft)
igital outputs		PE connection	
Number as relay changeover contact	1	Max. motor cable length	On housing with M4 scr
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)
Number as transistor	1	Unshielded	100 m (328.08 ft)
Output (resistive load)	DC 30 V, 0.5 A	S	tandards
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 Directive 2006/95/EC
vitching threshold as digital in	put		
0→1	4 V		
1→0	1.6 V		
nalog outputs			
Number	1 (Non-isolated output)		

PTC/ KTY interface

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



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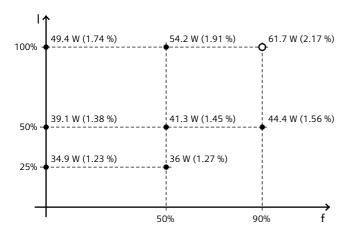
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-75.68 %



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