

MLFB-Ordering data

6SL3210-1KE14-3UF2



Figure similar

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

Item no.: Consignment no. : Project:

Rated d	ata
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	Over	load	capa	bility
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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		

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	

Max. operation

95 % At 40 °C (104 °F), condensation

and icing not permissible



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			Figure	
Mechanical data		Com	Communication	
egree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP	
ize	FSAA	Co	nnections	
Net weight	1.40 kg (3.09 lb)	Signal cable		
Width	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG	
Height	173 mm (6.81 in)	Line side		
Depth	160 mm (6.30 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	
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	on nousing than in second	
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/EC, Low-Vol Directive 2006/95/EC	
witching threshold as digital in	put			
0→1	4 V			
1→0	1.6 V			
nalog outputs				

PTC/ KTY interface

Number

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

1 (Non-isolated output)



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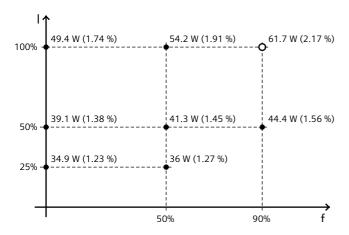
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Figure similar

Converter losses to EN 50598-2*

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