

MLFB-Ordering data

6SL3210-1KE14-3UF2



Figure similar

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

Remarks:

Item no. : Consignment no. : Project :

Rated da	ta	
nput		
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	4.000 kHz	
Output frequency for vector control	0 240 Hz	
Output frequency for V/f control	0 550 Hz	

Overload capability

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			



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Mechanical data		Com	munication
gree of protection	IP20 / UL open type	Communication	PROFINET / EtherNe
e	FSAA	Co	nnections
t weight	1.40 kg (3.09 lb)	Signal cable	
dth	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (
ght	173 mm (6.81 in)	Line side	
th	178 mm (7.01 in)	Version	Plug-in screw tern
Inputs / ou	tputs	Conductor cross-section	1.00 2.50 mm²
ndard digital inputs		Motor end	
mber	6	Version	Plug-in screw tern
itching level: 0→1	11 V	Conductor cross-section	1.00 2.50 mm²
itching level: 1→0	5 V	DC link (for braking resistor))
x. inrush current	15 mA	-	
-safe digital inputs		Version	Plug-in screw term
mber	1	Conductor cross-section	1.00 2.50 mm ²
tal outputs		Line length, max.	15 m (49.21 ft)
nber as relay changeover contact	1	PE connection Max. motor cable length	On housing with I
	DC 20 V 0 F A		F0 (454.045)
tput (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)
nber as transistor	1	Unshielded	100 m (328.08 ft
tput (resistive load)	DC 30 V, 0.5 A	S	tandards
og / digital inputs		Compliance with standards	UL, cUL, CE, C-Tick
mber	1 (Differential input)	CE marking	EMC Directive 200
solution	10 bit	CE marking	Directive 2006/95
tching threshold as digital in	put		
1	4 V		
→ 0	1.6 V		
og outputs			
ımber	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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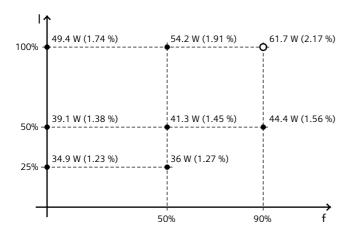
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Figure similar

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