

MLFB-Ordering data

6SL3210-1KE17-5UF1



Figure similar

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

Item no. : Consignment no. : Project :

Rated da	ta
Input	
Number of phases	3 AC
Line voltage	380 480 V +10 % -20 %
Line frequency	47 63 Hz
Rated current (LO) 9.50 A	
Rated current (HO)	8.20 A
Output	
Number of phases	3 AC
Rated voltage	400 V
Rated power IEC 400V (LO)	3.00 kW
Rated power NEC 480V (LO)	4.00 hp
Rated power IEC 400V (HO)	2.20 kW
Rated power NEC 480V (HO)	3.00 hp
Rated current (LO)	7.30 A
Rated current (HO)	5.60 A
Rated current (IN)	7.50 A
Max. output current	11.20 A
Pulse frequency	4 kHz
Output frequency for vector control	0 240 Hz
Output frequency for V/f control	0 550 Hz

Overload ca	apability
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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		
·	0.55		
Efficiency η	0.97		
Sound pressure level (1m)	52 dB		
Power loss	0.14 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		

95 % At 40 °C (104 °F), condensation Max. operation 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
egree of protection	IP20 / UL open type	,	Communication
1	FSA		Co
et weight	1.70 kg (3.75 lb)	Signal cab	le
Width	73 mm (2.87 in)	Conductor cross	s-section
Height	196 mm (7.72 in)	Line side	
Depth	208 mm (8.19 in)	Version	
Inputs / out	puts	Conductor cross-sect	ion
tandard digital inputs		Motor end	
Number	6	Version	
Switching level: 0→1	11 V	Conductor cross-section	on
Switching level: 1→0	5 V	DC link (for braking re	sistor
Max. inrush current	15 mA	Version	
Fail-safe digital inputs		Conductor cross-section	า
Number	1	Line length, max.	
Digital outputs		PE connection	
Number as relay changeover contact	1	Max. motor cable lengtl	1
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
Analog / digital inputs		Compliance with standar	ds
Number Resolution	1 (Differential input) 10 bit	CE marking	
Switching threshold as digital inp	out		
0→1	4 V		

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



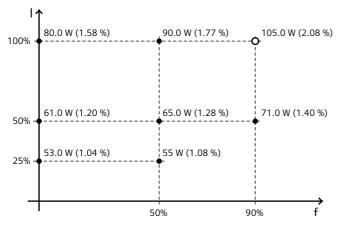
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Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% /	-69.05 %



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