

MLFB-Ordering data

6SL3210-1KE15-8UB2



Figure similar

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

Item no. : Consignment no. : Project :

Rated data				
Input				
Number of phases	3 AC			
Line voltage	380 480 V +10 % -20 %			
Line frequency	47 63 Hz			
Rated current (LO)	7.40 A			
Rated current (HO)	6.00 A			
Output				
Number of phases	3 AC			
Rated voltage	400 V			
Rated power IEC 400V (LO)	2.20 kW			
Rated power NEC 480V (LO)	3.00 hp			
Rated power IEC 400V (HO)	1.50 kW			
Rated power NEC 480V (HO)	2.00 hp			
Rated current (IN)	5.80 A			
Rated current (LO)	5.60 A			
Rated current (HO)	4.10 A			
Max. output current	8.20 A			
Pulse frequency	4 kHz			
Output frequency for vector control	0 240 Hz			
Output frequency for V/f control	0 550 Hz			

Overload capability

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		
rower factor A	0.70 0.63		
Offset factor cos φ	0.95		
Efficiency η	0.97		
Sound pressure level (1m)	49 dB		
Power loss	0.07 kW		
Filter class (integrated)	Unfiltered		

Ambient conditions			
Cooling	Air cooling using an integrated fan		
Cooling air requirement	0.005 m ³ /s (0.177 ft ³ /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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Mechanica	data	Con	Communication	
Degree of protection	IP20 / UL open type	Communication	USS/MODBUS RTU	
Size	FSAA	Co	onnections	
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	
leight	173 mm (6.81 in)	Line side		
Depth	155 mm (6.10 in)	Version	Plug-in screw terminals	
Inputs / ou	tputs	Conductor cross-section	1.00 2.50 mm² (AWG 18	
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 18	
Switching level: 1→0	5 V	DC link (for braking resistor	r)	
Max. inrush current	15 mA	Version	Plug-in screw terminals	
ail-safe digital inputs		Conductor cross-section	1.00 2.50 mm² (AWG 18	
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 with M4 screw	
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		Standards	
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 Directive 2006/95/EC	
witching threshold as digital in	put			
0→1	4 V			
1→0	1.6 V			
analog 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)



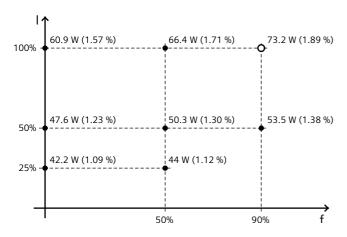
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-69.92 %



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