

MLFB-Ordering data

6SL3210-1KE18-8UB1



Client order no.: Order no. :

Item no.: Consignment no. : Project:

Offer	no. :	
Remarks :		

Rated data		General tech. specifications		
nput		Power factor λ	0.70 0.85	
Number of phases	3 AC	Offset factor cos φ	0.95	
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97	
Line frequency	47 63 Hz	Sound pressure level (1m)	52 dB	
Rated current (LO)	11.40 A	Power loss	0.15 kW	
Rated current (HO)	10.60 A	Aughin		
Output		Ambiei	nt conditions	
Number of phases	3 AC	Cooling	Air cooling using an integrated fa	
Rated voltage	400 V			
Rated power IEC 400V (LO)	4.00 kW	Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Rated power NEC 480V (LO)	5.00 hp	Installation altitude	1000 m (3280.84 ft)	
Rated power IEC 400V (HO)	3.00 kW	Ambient temperature		
Rated power NEC 480V (HO)	4.00 hp	Operation	-10 40 °C (14 104 °F)	
Rated current (IN)	9.00 A	Transport	-40 70 °C (-40 158 °F)	
Rated current (LO)	8.80 A	Storage	-40 70 °C (-40 158 °F)	
	7.30 A	Relative humidity		
Rated current (HO)			95 % At 40 °C (104 °F), condensa	
Max. output current	14.60 A	Max. operation	and icing not permissible	
Pulse frequency	4.000 kHz	Classellass		
Output frequency for vector control	0 240 Hz	Closed-loop	control techniques	
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parame	eterizable Yes	
		V/f with flux current control (F	CC) Yes	
		V/f ECO linear / square-law	Yes	
verload capability		Sensorless vector control	Yes	
· · ·		Vector control, with sensor	No	
Low Overload (LO) 150 % base load current IL for 3 s, followed by	110 % base load current IL for 57 s in a	Vector control, with sensor Encoderless torque control	No No	

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

ith encoder	No	

Communication

Communication RS485

Torque control, w



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03	L3210-1RE18-80B1		Figure		
Mechanical data		Co	Connections		
Degree of protection	IP20 / UL open type	Signal cable			
Size	FSA	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 1		
Net weight	1.70 kg (3.75 lb)	Line side			
Width	73 mm (2.87 in)	Version	Plug-in screw terminals		
Height	196 mm (7.72 in)	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14		
Depth	203 mm (7.99 in)	Motor end			
Inputs / out	tputs	Version	Plug-in screw terminals		
tandard digital inputs		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 1		
Number	6	DC link (for braking resistor))		
Switching level: 0→1	11 V	Version	Plug-in screw terminals		
Switching level: 1→0	5 V	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 1		
Max. inrush current	15 mA	Line length, max.	15 m (49.21 ft)		
ail-safe digital inputs		PE connection	On housing with M4 screw		
Number	1	Max. motor cable length			
igital outputs		Shielded	150 m (492.13 ft)		
Number as relay changeover contact	1	Unshielded	150 m (492.13 ft)		
Output (resistive load)	DC 30 V, 0.5 A	S	tandards		
Number as transistor	1	Compliance with standards	UL, cUL, CE, C-Tick (RCM)		
Output (resistive load)	DC 30 V, 0.5 A		EMC D: 12 2004/400/EC 1/4		
nalog / digital inputs		CE marking	EMC Directive 2004/108/EC, Low-Volt Directive 2006/95/EC		
Number	1 (Differential input)				
Resolution	10 bit				
witching threshold as digital in	put				
0→1	4 V				
1→0	1.6 V				

Analog 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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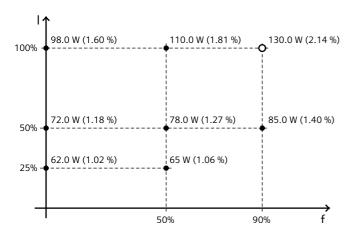
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-66.51 %



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