

MLFB-Ordering data

6SL3210-1KE13-2UB2



Figure similar

Client order no. : Order no. : Offer no. : Remarks : Item no. : Consignment no. : Project :

3 AC 380 480 V +10 % -20 %
380 480 V +10 % -20 %
47 63 Hz
4.10 A
3.20 A
3 AC
400 V
1.10 kW
1.50 hp
0.75 kW
1.00 hp
3.20 A
3.10 A
2.20 A
4.40 A
4 kHz
0 240 Hz
0 550 Hz

Overload ca	pability
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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	0.05 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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			Fig
Mechanical	data	Con	nmunication
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 AWC
Height	173 mm (6.81 in)	Line side	
Depth	155 mm (6.10 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
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	, , , , , , , , , , , , , , , , , , ,
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	9	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, Low-V 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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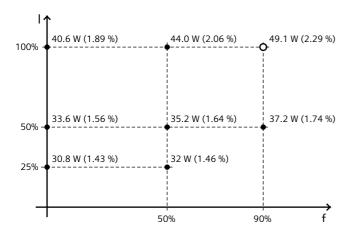
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Name of the Control o

Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-77.61 %



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