

MLFB-Ordering data

6SL3210-1KE23-2AF1



Figure similar

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

Remarks :		7			
Rated data		General tech. specifications			
Input		Power factor λ	0.7	0 0.85	
Number of phases	3 AC	Offset factor cos φ	0.9	5	
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.9	7	
Line frequency	47 63 Hz	Sound pressure level (1m)	66	dB	
Rated current (LO)	40.60 A	Power loss	0.4	3 kW	
Rated current (HO)	36.40 A	Filter class (integrated)	Clas	ss A	
Output			. 11.1		
Number of phases	3 AC	Ambient conditions			
Rated voltage	400 V	Cooling	Air cooling	g using an integrated fan	
Rated power IEC 400V (LO)	15.00 kW	Carling signs with an aut	0.0103/	- (0.626 #31-)	
Rated power NEC 480V (LO)	20.00 hp	Cooling air requirement 0.018 m³/s (0.636 ft³/s)		·	
Rated power IEC 400V (HO)	11.00 kW	Installation altitude 1000 m (3280.84 ft)		2280.84 ft)	
Rated power NEC 480V (HO)	15.00 hp	Ambient temperature			
Rated current (IN)	32.00 A	Operation	-10 40 °	°C (14 104 °F)	
Rated current (LO)	31.00 A	Transport	-40 70 °	°C (-40 158 °F)	
Rated current (HO)	25.00 A	Storage	-40 70 °	°C (-40 158 °F)	
		Relative humidity			
Max. output current	50.00 A			95 % At 40 °C (104 °F), condensation and icing not permissible	
Pulse frequency	4 kHz	Max. operation	and icing		
Output frequency for vector control	0 240 Hz	Closed-loop control techniques			
		Closed-loop C	ontroi teci	iniques	
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parameterizable Yes		Yes	
		V/f with flux current control (FC	C)	Yes	
Overload capability		V/f ECO linear / square-law		Yes	
o tottoda capability					

Item no.: Consignment no. : Project :

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

Sensorless vector control

Vector control, with sensor

Encoderless torque control

Torque control, with encoder

Yes

No

No

No



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			Figure		
Mechanical data		Com	Communication		
egree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP		
ze	FSC	Connections			
let weight	4.40 kg (9.70 lb)	Signal cable			
Vidth	140 mm (5.51 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG		
Height	295 mm (11.61 in)	Line side			
Depth	208 mm (8.19 in)	Version	Plug-in screw terminals		
Inputs / outputs		Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG		
andard digital inputs		Motor end			
Number	6	Version	Plug-in screw terminals		
Switching level: 0→1	11 V	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWC		
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	6.00 16.00 mm² (AWG 10 AWC		
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	<u> </u>		
Output (resistive load)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)		
Number as transistor	1	Unshielded	150 m (492.13 ft)		
Output (resistive load)	DC 30 V, 0.5 A	S	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-Vo Directive 2006/95/EC		
witching threshold as digital in	put				
0→1	4 V				
1→0	1.6 V				
nalog 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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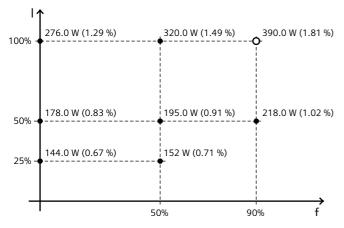
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-65.06 %



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