

MLFB-Ordering data

6SL3210-1KE23-2AF1



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

Rated data		General tech. specifications		
	Power factor λ	0.	70 0.85	
3 AC	Offset factor cos φ	0.	95	
380 480 V +10 % -20 %	Efficiency η	0.	97	
47 63 Hz	Sound pressure level (1m)	66	5 dB	
40.60 A	Power loss	0.	43 kW	
36.40 A	Filter class (integrated)	Cl	ass A	
	Δmhia	nt conditio	nns	
3 AC	Alliblei	Ti conditio	,,,,	
400 V	Cooling	Air cooli	ng using an integrated fan	
15.00 kW			24 (2.525 (24.)	
20.00 hp			³/s (0.636 ft³/s)	
11.00 kW		1000 m	(3280.84 ft)	
15.00 hp	Ambient temperature			
32.00 A	Operation	-10 40) °C (14 104 °F)	
31.00 A	Transport	-40 70) °C (-40 158 °F)	
25.00 A	Storage	-40 70) °C (-40 158 °F)	
50.00 A	Relative humidity			
	Max operation		40°C (104°F), condensation not permissible	
	wax. operation	and lenig	y not permissione	
0 240 Hz	Closed-loop control techniques			
0 550 Hz	crosed roop control techniques			
	V/f linear / square-law / parame	eterizable	Yes	
	V/f with flux current control (Fo	CC)	Yes	
	3 AC 380 480 V +10 % -20 % 47 63 Hz 40.60 A 36.40 A 3 AC 400 V 15.00 kW 20.00 hp 11.00 kW 15.00 hp 32.00 A 31.00 A	Power factor \(\) Offset factor \(\) Cound pressure level \((1m) \) 40.60 \(\) A Power loss 36.40 \(\) Filter class \((integrated) \) Ambiest Ambiest 3 AC 400 \(\) Cooling Cooling air requirement Installation altitude Ambient temperature Operation Transport Storage Relative humidity 50.00 \(\) A 4 kHz O 240 Hz Closed-loop of the content of the c	Power factor λ	

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

V/f ECO linear / square-law

Sensorless vector control

Vector control, with sensor

Encoderless torque control

Torque control, with encoder

Yes

Yes

No

No

No



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			Figure simil:		
Mechanical data		Com	Communication		
Degree of protection	IP20 / UL open type	Communication	PROFINET, EtherNet/IP		
Size	FSC	Connections			
Net weight	4.40 kg (9.70 lb)	Signal cable			
Width	140 mm (5.51 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)		
Height	295 mm (11.61 in)	Line side			
Depth	208 mm (8.19 in)	Version	Plug-in screw terminals		
Inputs / out	tputs	Conductor cross-section	6.00 16.00 mm² (AWG 10 AWG 6)		
Standard 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 AWG 6)		
Switching level: 1→0	5 V	DC link (for braking resistor))		
Max. inrush current	15 mA	Version	Plug-in screw terminals		
Fail-safe digital inputs		Conductor cross-section	6.00 16.00 mm ² (AWG 10 AWG 6)		
Number	1	Line length, max.	15 m (49.21 ft)		
Digital outputs		PE connection	On housing with M4 screw		
Number as relay changeover contact	1	Max. motor cable length	On Housing with M4 screw		
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	Standards			
Analog / 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-Voltage Directive 2006/95/EC		
Switching 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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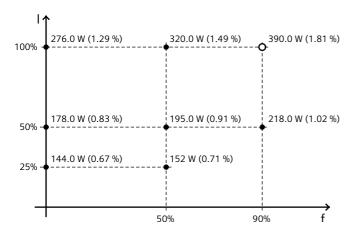
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Figure similar

Converter losses to EN 50598-2*

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