

MLFB-Ordering data

6SL3220-3YE58-0CB0



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 % -10 %		
Line frequency	47 63 Hz		
Rated voltage	400V IEC 480V NEC		
Rated current (LO)	668.00 A 525.00 A		
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380 480 V	+10 % -10 %	
47 63 Hz		
400V IEC	480V NEC	
668.00 A	525.00 A	
501.00 A	402.00 A	
3 AC		
400V IEC	480V NEC	
355.00 kW	450.00 hp	
250.00 kW	300.00 hp	
640.00 A	515.00 A	
570.00 A	394.00 A	
655.00 A		
864.00 A		
4 kHz		Α
0 100 Hz		
0 100 🗠		
	47 63 Hz 400V IEC 668.00 A 501.00 A 3 AC 400V IEC 355.00 kW 250.00 kW 640.00 A 570.00 A 655.00 A 864.00 A 4 kHz	400V IEC 480V NEC 668.00 A 525.00 A 501.00 A 402.00 A 3 AC 400V IEC 480V NEC 355.00 kW 450.00 hp 250.00 kW 300.00 hp 640.00 A 515.00 A 570.00 A 394.00 A 655.00 A 864.00 A 4 kHz 0 100 Hz

Line frequency	47 63 Hz	
Rated voltage	400V IEC	480V NEC
Rated current (LO)	668.00 A	525.00 A
Rated current (HO)	501.00 A	402.00 A
Output		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC
Rated power (LO)	355.00 kW	450.00 hp
Rated power (HO)	250.00 kW	300.00 hp
Rated current (LO)	640.00 A	515.00 A
Rated current (HO)	570.00 A	394.00 A
Rated current (IN)	655.00 A	
Max. output current	864.00 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 100 Hz	

Overload capability	/
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Low Overload (LO)

110% base load current IL for 60 s in a 300 s cycle time

High Overload (HO)

150% x base load current IH for 60 s within a 600 s cycle time

General tech. specifications			
Power factor λ	0.75 0.93		
Offset factor cos φ	0.96		
Efficiency η	0.98		
Sound pressure level (1m)	74 dB		
Power loss	7.687 kW		
Filter class (integrated)	RFI suppression filter for Category C3		
EMC category (with accessories)	Category C3		

Ambient conditions				
Standard board coating type	Class 3C2, according to IEC 60721-3-3: 2002			
Cooling	Air cooling using an integrated fan			
Cooling air requirement	0.362 m³/s (12.784 ft³/s)			
Installation altitude	1000 m (3280.84 ft)			
Ambient temperature				
Operation	0 45 °C (32 113 °F)			
Transport	-40 70 °C (-40 158 °F)			
Storage	-25 55 °C (-13 131 °F)			

Relative humidity

	95 % At 40 °C (104 °F), condensation
Max. operation	and icing not permissible



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Maria - '	data	Classaller	Figure	
Mechanical	data	Closed-loop	Closed-loop control techniques	
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameterizable Yes		
Size	FSH			
Net weight	157 kg (346.13 lb)	V/f with flux current control (Fo	CC) Yes	
Width	548 mm (21.57 in)	V/f ECO linear / square-law	Yes	
Height	1695 mm (66.73 in)	Sensorless vector control	Yes	
Depth	393 mm (15.47 in)	Vector control, with sensor	No	
Inputs / out		Encoderless torque control	Yes	
tandard digital inputs	ipuis			
		Torque control, with encoder	No	
Number	6	Com	nunication	
Switching level: 0→1	11 V	Communication	USS, Modbus RTU, BACnet MS/TF	
Switching level: 1→0	5 V	Cor	nnections	
Max. inrush current	15 mA	Signal cable		
ail-safe digital inputs			0.15 1.50 3	
Number	1	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
igital outputs		Line side		
Number as relay changeover contact	2	Version	M12 screw	
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	240.00 mm ² (MCM 2 x 500 MCM 4 x 500)	
Number as transistor	0	Motor end		
nalog / digital inputs		Version	M12 screw	
Number	2 (Differential input)	Conductor cross-section	240.00 mm ² (MCM 2 x 500 MCM 4 x 500)	
Resolution	10 bit	DC link (for braking resistor)		
witching threshold as digital in	put	PE connection	M12 screw	
0→1	4 V	Max. motor cable length	IVITZ SCIEW	
1→0	1.6 V		150 m (402 12 ft)	
nalog outputs		Shielded	150 m (492.13 ft)	
Number	1 (Non-isolated output)			

PTC/ KTY interface

1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^{\circ}\text{C}$

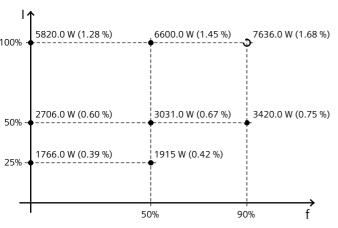


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Converter losses to EN 50!	598-2*	
Efficiency class	IE2	Co
Comparison with the reference converter (90% / 100%)	-41.20 %	



Standards

Compliance with standards UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH

CE marking EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC

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.

Operator panel: Intelligent Operator Panel (IOP-2)

S	Screen	Ambie	ent conditions
Display design	LCD colors	Ambient temperature durin	g
	Operation	Operation	0 50 °C (32 122 °F)
Screen resolution	320 x 240 Pixel		55 °C only with door mounting kit
Mech	anical data	Storage	-40 70 °C (-40 158 °F)
Degree of protection	IP55 / UL type 12	Transport	-40 70 °C (-40 158 °F)
Net weight	0.13 kg (0.30 lb)	Relative humidity at 25°C di	uring
Width	70.0 mm (2.76 in)	Max. operation	95 %
Height	106.85 mm (4.21 in)		
Depth	19.65 mm (0.77 in)	Approvals	
r	(6177 1117)	Certificate of suitability	CE, cULus, EAC, KCC, RCM

^{*}converted values