

MLFB-Ordering data

6SL3220-1YH60-0CB0



Client order no. :

Item no.: Consignment no. : Project :

			R	ated o	data		
Remark	KS:						
Offer n							
Order r	10. :						

Rated da	ta		General tech. specifications			
Input			Power factor λ	0.75 0.93		
Number of phases	3 AC		Offset factor cos φ	0.96		
Line voltage	500 690 V +10 % -10 %		Efficiency η	0.98		
Line frequency	47 63 Hz		Sound pressure level (1m)	74 dB		
Rated voltage	690V IEC	600V NEC	Power loss	6.884 kW		
Rated current (LO)	471.00 A	461.00 A	Filter class (integrated)	RFI suppression filter for Category C3		
Rated current (HO)	362.00 A	381.00 A	Titler class (integrated)			
Output			Ambien	t conditions		
Number of phases	3 AC		Standard board coating type	Class 3C2, according to IEC 60721-3- 3: 2002		
Rated voltage	690V IEC	600V NEC				
Rated power (LO)	400.00 kW	450.00 hp	Cooling	Air cooling using an integrated fan		
Rated power (HO)	355.00 kW	400.00 hp				
Rated current (LO)	420.00 A	432.00 A	Cooling air requirement	0.362 m³/s (12.784 ft³/s)		
Rated current (HO)	385.00 A	367.00 A	Installation altitude	1000 m (3280.84 ft)		
Rated current (IN)	453.00 A		Ambient temperature			
Max. output current	598.00 A		Operation	0 45 °C (32 113 °F)		
Pulse frequency	2 kHz		Transport	-40 70 °C (-40 158 °F)		
Output frequency for vector control	0 100 Hz		Storage	-25 55 °C (-13 131 °F)		
			Relative humidity			
Output frequency for V/f control	0 100 Hz		Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible		

Overload capability

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



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data	Closed-loop co	ontrol techniques	
IP20 / UL open type	\((\frac{1}{2}\)		
FSH	v/f linear / square-law / paramete	erizable Yes	
Net weight 162 kg (357.15 lb)) Yes	
548 mm (21.57 in)	V/f ECO linear / square-law	Yes	
1695 mm (66.73 in)	Sensorless vector control	Yes	
	Vector control, with sensor	No	
	Encoderless torque control	Yes	
puts			
	Torque control, with encoder	No	
	Communication		
11 V	Communication	USS, Modbus RTU, BACnet MS/TP	
5 V	Conn	ections	
15 mA			
	-	0.15 1.50 mm²	
1	Conductor cross-section	(AWG 24 AWG 16)	
	Line side		
2	Version	M12 screw	
DC 30 V, 5.0 A	Conductor cross-section	35.00 240.00 mm ² (AWG 2 AWG -3)	
0	Motor end		
	Version	M12 screw	
2 (Differential input)	Conductor cross-section	35.00 240.00 mm²	
10 bit		(AWG 2 AWG -3)	
nut	DC link (for braking resistor)		
	PE connection	M12 screw	
	Max. motor cable length		
1.6 V	Shielded	150 m (492.13 ft)	
	Unshielded	200 m (656.17 ft)	
1 (Non-isolated output)			
rs that can be connected: PTC, KTY			
	IP20 / UL open type FSH 162 kg (357.15 lb) 548 mm (21.57 in) 1695 mm (66.73 in) 393 mm (15.47 in) Eputs 6 11 V 5 V 15 mA 1 2 DC 30 V, 5.0 A 0 2 (Differential input) 10 bit Dut 4 V 1.6 V 1 (Non-isolated output)	IP20 / UL open type FSH 162 kg (357.15 lb) 548 mm (21.57 in) 1695 mm (66.73 in) 393 mm (15.47 in) Iputs Torque control, with sensor Encoderless torque control Communication Communication Torque control, with encoder Communication Conductor cross-section Line side Version Conductor cross-section O Motor end Version Conductor cross-section DC 10 bit DC link (for braking resistor) PE connection Max. motor cable length Shielded Unshielded	



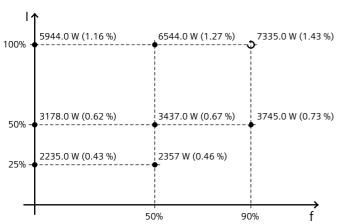
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Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-35.20 %



 $The \ percentage \ values \ show \ the \ losses \ in \ relation \ to \ the \ rated \ apparent \ power \ of \ the \ converter.$

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.

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

^{*}converted values