

MLFB-Ordering data

6SL3220-2YH66-1CF0



Client order no. : Order no. :

Offer no. : Remarks:

Item no.: Consignment no. : Project :

	Rated data					
In	Input					
	Number of phases	3 AC				
	Line voltage	500 690 V	+10 % -10 %			
	Line frequency	47 63 Hz				
	Rated voltage	690V IEC	600V NEC			
	Rated current (LO)	679.00 A	665.00 A			
	Rated current (HO)	494.00 A	543.00 A			
Λ	Output					

Line voltage		500 690 V	+10 % -10 %	
Line frequency		47 63 Hz		
Rated voltage		690V IEC	600V NEC	
Rated current (LO)	679.00 A	665.00 A	
Rated current (HC))	494.00 A	543.00 A	
Output				
Number of phases		3 AC		
Rated voltage		690V IEC	600V NEC	
Rated power (LO)		560.00 kW	600.00 hp	
Rated power (HO))	500.00 kW	500.00 hp	
Rated current (LO)	580.00 A	610.00 A	
Rated current (HC))	520.00 A	523.00 A	
Rated current (IN)		654.00 A		
Max. output curre	ent	864.00 A		
Pulse frequency		2 kHz		
Output frequency f	or vector control	0 100 Hz		
Output frequency f	or V/f control	0 100 Hz		

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	8.828 kW		
Filter class (integrated)	RFI suppression filter for Category C3		
EMC category (with accessories)	Category C3		

Live category (with accessories)	Category C5				
Ambient	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	0.450 m³/s (15.892 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					

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

Max. operation

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



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Mechanical data		Closed-loop co	Closed-loop control techniques		
Degree of protection	IP20 / UL open type	V/f linear / square-law / paramete	r izable Yes		
Size	FSJ				
Net weight	236 kg (520.29 lb)	V/f with flux current control (FCC) Yes		
Width	801 mm (31.54 in)	V/f ECO linear / square-law	Yes		
Height	1621 mm (63.82 in)	Sensorless vector control	Yes		
Depth	393 mm (15.47 in)	Vector control, with sensor	No		
Inputs / ou	tputs	Encoderless torque control	Yes		
Standard digital inputs		Torque control, with encoder	No		
Number 6					
Switching level: 0→1	11 V		unication		
Switching level: 1→0	5 V	Communication	PROFINET, EtherNet/IP		
Max. inrush current 15 mA		Connections			
Fail-safe digital inputs		Signal cable			
Number	1	Conductor cross-section	0.15 1.50 mm ² (AWG 24 AWG 16)		
Digital 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 4 x 500 MCM 6 x 500)		
Number as transistor	0	Motor end			
Analog / digital inputs		Version	M12 screw		
Number	2 (Differential input)	Conductor cross-section	240.00 mm ² (MCM 4 x 500 MCM 8 x 500)		
Resolution	10 bit	DC link (for braking resistor)	(Mein 1 x 300 Mein 0 x 300)		
Switching threshold as digital in	put	PE connection	M12 screw		
0→1	4 V	Max. motor cable length	IVI I Z SCIEW		
1→0	1.6 V	-	150 m (402 12 ft)		
Analog outputs		Shielded	150 m (492.13 ft)		

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)

Number

PTC/ KTY interface

Page 2 of 3



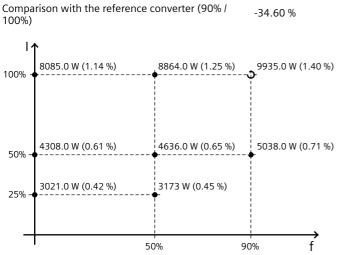
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Efficiency

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Converter losses to EN 50598-2*		Standards	
y class	IE2	Compliance with standards UL, cUL, CE, C-Tick (RCM), EAC, F47, REACH	UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI
son with the reference converter (90% /	-34.60 %		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: Basic Operator Panel (BOP-2)

Screen		Ambie	Ambient conditions		
Display design LCD, monochrome		Ambient temperature during			
		Operation	0 50 °C (32 122 °F)		
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	0.14 kg (0.31 lb)	Relative humidity at 25°C d	uring		
Width	70.0 mm (2.76 in)	Max. operation	95 %		
Height	106.85 mm (4.21 in)	Approvals			
Depth	19.60 mm (0.77 in)				
		Certificate of suitability	CE, cULus, EAC, KCC, RCM		

I/O Extension Module

Technical specifications for the I/O Extension Modul are available via direct input (MLFB 6SL3255-0BE00-0AA0).

^{*}converted values