

MLFB-Ordering data

6SL3220-3YH62-0CF0



Client order no. : Order no. : Offer no. : Remarks :

ltem no. :	
Consignment no. :	
Project :	

Rated data			General tech	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 n	0.98	
Line frequency	47 63 Hz		Sound pressure level (1m)	74 dB	
Rated voltage	690V IEC	600V NEC	Power loss	7.716 kW	
Rated current (LO)	537.00 A	526.00 A	Filten de se (interneted)	RFI suppression filter for Category C3	
Rated current (HO)	410.00 A	440.00 A	Filter class (integrated)		
Output	Aı		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		5. 2002	
Rated power (LO)	450.00 kW	500.00 hp	Cooling	Air cooling using an integrated fan	
Rated power (HO)	400.00 kW	450.00 hp			
Rated current (LO)	470.00 A	487.00 A	Cooling air requirement	0.362 m³/s (12.784 ft³/s)	
Rated current (HO)	420.00 A	423.00 A	Installation altitude	1000 m (3280.84 ft)	
Rated current (IN)	516.00 A		Ambient temperature		
Max. output current	682.00 A		Operation	0 45 ℃ (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	Figure similar		
Mechanical data Degree of protection IP20 / UL open type		Closed-loop control techniques		
	V/f linear / square-law / paramete	rizable Yes		
	V/f with flux current control (FCC)) Yes		
-	V/f ECO linear / square-law	Yes		
	Sensorless vector control	Yes		
1695 mm (66.73 in)	Vector control, with sensor	No		
393 mm (15.47 in)		Yes		
puts				
	Torque control, with encoder	No		
6	Commi	inication		
11 V		PROFINET, EtherNet/IP		
5 V				
15 mA	Connections			
	Signal cable			
1	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)		
	Line side			
2	Version	M12 screw		
DC 30 V, 5.0 A	Conductor cross-section	35.00 240.00 mm² (AWG 2 AWG -3)		
0	Motor end			
	Version	M12 screw		
2 (Differential input)	Conductor cross-section	35.00 240.00 mm² (AWG 2 AWG -3)		
10 bit	DC link (for braking resistor)			
out	PE connection	M12 screw		
4 V				
1.6 V	-	150 m (492.13 ft)		
	- Unshielded	200 m (656.17 ft)		
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) 6 11 V 5 V 15 mA 1 2 DC 30 V, 5.0 A 0 10 bit 10 bit 4 V 1.6 V	IP20 / UL open type V/f linear / square-law / parameter FSH V/f with flux current control (FCC) 162 kg (357.15 lb) V/f ECO linear / square-law 548 mm (21.57 in) Sensorless vector control 1695 mm (66.73 in) Vector control, with sensor 393 mm (15.47 in) Encoderless torque control tputs Torque control, with encoder 6 Communication 11 V Communication 5 V Conductor cross-section 15 mA Signal cable 1 Conductor cross-section 0 Motor end 0 Version 2 (Differential input) Conductor cross-section 10 bit DC link (for braking resistor) put PE connection 4 V Shielded 1.6 V Shielded		

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

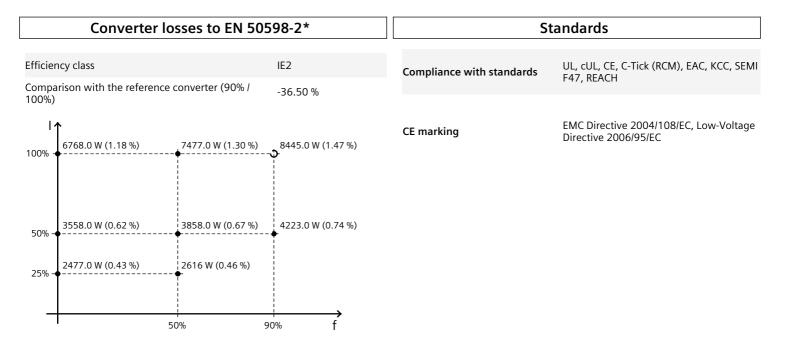


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Figure similar



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

Operator panel: Intelligent Operator Panel (IOP-2)

9	Screen	Ambient conditions		
Display design	LCD colors	Ambient temperature dur	ing	
Screen resolution	320 x 240 Pixel	Operation	0 50 °C (32 122 °F)	
	520 x 240 Fixel		55 °C only with door mounting kit	
Mechanical 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	during	
Width	70.0 mm (2.76 in)	Max operation	95 %	
Height	106.85 mm (4.21 in)	Max. operation	55 %	
-			Approvals	
Depth	19.65 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM	