

MLFB-Ordering data

6SL3220-1YH58-1CP0



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data			General tech.	. specifications	
nput			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	6.191 kW	
Rated current (LO)	416.00 A	408.00 A	Filter class (integrated)	RFI suppression filter for	
Rated current (HO)	327.00 A	333.00 A	The class (integrated)	Category C3	
utput			EMC category (with accessories)	Category C3	
Number of phases	3 AC				
Rated voltage	690V IEC	600V NEC	Ambient conditions		
Rated power (LO)	355.00 kW	400.00 hp	Standard board coating type	Class 3C2, according to IEC 60721 3: 2002	
Rated power (HO)	315.00 kW	350.00 hp			
Rated current (LO)	385.00 A	388.00 A	Cooling	Air cooling using an integrated fa	
Rated current (HO)	330.00 A	320.00 A			
Rated current (IN)	400.00 A		Cooling air requirement	0.362 m³/s (12.784 ft³/s)	
Max. output current	529.00 A		Installation altitude	1000 m (3280.84 ft)	
Pulse frequency	2 kHz		Ambient temperature		
Output frequency for vector control	0 100 Hz		Operation	0 45 °C (32 113 °F)	
			Transport	-40 70 °C (-40 158 °F)	
Output frequency for V/f control	0 100 Hz		Storage	-25 55 °C (-13 131 °F)	
			Relative humidity		
			Max. operation	95 % At 40 °C (104 °F), condensat 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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Mechanical data		Figure sin Closed-loop control techniques		
IP20 / UL open type				
FSH	V/f linear / square-law / parameterizable		Yes	
158 kg (348.33 lb)	V/f with flux current control (FC	:C)	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	
	Torque control with encoder		No	
6				
	Comn	Communication		
	Communication	PROFIBUS DP		
	Connections			
15 mA	Signal cable			
1	Conductor cross-section			
	Line side			
2	Version	M12 screw	M12 screw	
DC 30 V, 5.0 A	Conductor cross-section	240.00 mm² (MCM 2 x 500	240.00 mm² (MCM 2 x 500 MCM 4 x 500)	
0	Motor end			
	Version	M12 screw		
2 (Differential input)	Conductor cross-section	240.00 mm² (MCM 2 x 500	240.00 mm² (MCM 2 x 500 MCM 4 x 500)	
10 bit	DC link (for braking resistor)			
put		M12 scrow		
4 V		WITZ SCIEW		
1.6 V		150 (402.4	2 ft)	
	Shielaea	150 M (492.1	5 11)	
1 (Non-isolated output)				
	IP20 / UL open type FSH 158 kg (348.33 lb) 548 mm (21.57 in) 1695 mm (66.73 in) 393 mm (15.47 in) 393 mm (15.47 in) 6 11 V 5 V 15 mA 2 DC 30 V, 5.0 A 0 2 (Differential input) 10 bit 10 bit 4 V 1.6 V	IP20 / UL open typeVfFSHVf with flux current control (FC158 kg (348.33 lb)Vf with flux current control (FC548 mm (21.57 in)Sensorless vector control1695 mm (66.73 in)Vector control, with sensor393 mm (15.47 in)Encoderless torque controltputsTorque control, with encoder6Communication5 VCom15 mASignal cable1Conductor cross-section1Line side2Version0Motor end0Version2 (Differential input)Conductor cross-section10 bitDC link (for braking resistor)putPE connection4 V1.6 V	IP20 / UL open type Vf linear / square-law / parameterizable FSH Vf with flux current control (FCC) 158 kg (348.33 lb) Vf 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 Communication 11 V Communication 5 V Connections 15 mA Signal cable 1 Conductor cross-section 0.15 1.50 n (AWG 24 Al Line side Version M12 screw 0 Motor end Version 0 Motor end Conductor cross-section 240.00 mm² (MCM 2 x 500 10 bit DC link (for braking resistor) PL link (for braking resistor) put 4 V Max. motor cable length M12 screw 1.6 V Shielded 150 m (492.1	

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

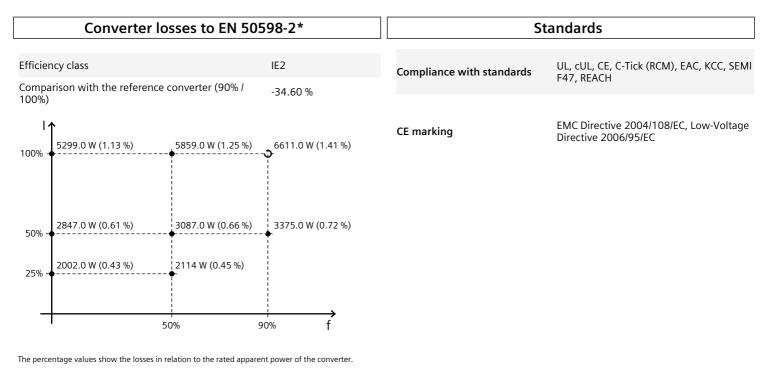


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Figure similar



The 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

I/O Extension Module

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