

MLFB-Ordering data

6SL3220-1YH68-0CP0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data			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	9.937 kW	
Rated current (LO)	753.00 A	737.00 A	Filter class (integrated)	RFI suppression filter for Category C3	
Rated current (HO)	552.00 A	602.00 A			
Output			EMC category (with accessories)	Category C3	
Number of phases	3 AC				
Rated voltage	690V IEC	600V NEC	Ambient conditions		
Rated power (LO)	630.00 kW	700.00 hp	Standard board coating type	Class 3C2, according to IEC 60721-3 3: 2002	
Rated power (HO)	560.00 kW	600.00 hp			
Rated current (LO)	650.00 A	679.00 A	Cooling	Air cooling using an integrated fan	
Rated current (HO)	580.00 A	580.00 A			
Rated current (IN)	725.00 A		Cooling air requirement	0.450 m³/s (15.892 ft³/s)	
Max. output current	959.00 A		Installation altitude	1000 m (3280.84 ft)	
Pulse frequency	2 kHz		Ambient temperature		
Output frequency for vector control	r ol 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), condensatio	

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

and icing not permissible



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Mechanical data		Closed-loop co	ontrol techniques	
Degree of protection	IP20 / UL open type		•	
Size	FSJ	V/f linear / square-law / paramete	erizable Yes	
Net weight	246 kg (542.34 lb)	V/f with flux current control (FCC	C) Yes	
Width	801 mm (31.54 in)	V/f ECO linear / square-law	Yes	
Height	1621 mm (63.82 in)	Sensorless vector control	Yes	
		Vector control, with sensor	No	
Depth	393 mm (15.47 in)	Encoderless torque control	Yes	
Inputs / ou	tputs			
tandard digital inputs		Torque control, with encoder	No	
Number	6	Communication		
Switching level: $0 \rightarrow 1$	11 V	Communication	PROFIBUS DP	
Switching level: 1→0	5 V			
Max. inrush current	15 mA	Connections		
ail-safe digital inputs		Signal cable		
Number	1	Conductor cross-section	0.15 1.50 mm² (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 mm² (MCM 4 x 500 MCM 6 x 500)	
Number as transistor	0	Motor end		
nalog / digital inputs		Version	M12 screw	
Number	2 (Differential input)	Conductor cross-section	240.00 mm² (MCM 4 x 500 MCM 8 x 500)	
Resolution	10 bit	DC link (for braking resistor)		
Switching threshold as digital input		PE connection	M12 screw	
0→1	4 V	Max. motor cable length		
1→0	1.6 V	Shielded	150 m (492.13 ft)	
analog outputs		Shielded	()) CT.2CT) III ()	
Number	1 (Non-isolated output)			
TC/ KTY interface				

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

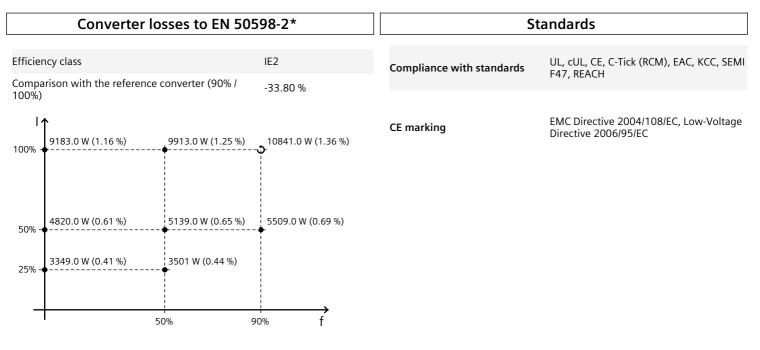


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The percentage values show the losses in relation to the rated apparent power of the converter.

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