

# **MLFB-Ordering data**

6SL3220-2YH66-0CF0



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated da	ta		General tech	n. 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	8.828 kW
Rated current (LO)	679.00 A	665.00 A		RFI suppression filter for
Rated current (HO)	494.00 A	543.00 A	Filter class (integrated)	Category C3
Output			Ambient	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)	560.00 kW	600.00 hp	Cooling	Air cooling using an integrated fan
Rated power (HO)	500.00 kW	500.00 hp		
Rated current (LO)	580.00 A	610.00 A	Cooling air requirement	0.450 m³/s (15.892 ft³/s)
Rated current (HO)	520.00 A	523.00 A	Installation altitude	1000 m (3280.84 ft)
Rated current (IN)	654.00 A		Ambient temperature	
Max. output current	864.00 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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Mechanical	data	Closed-loop co	Figure sin	
Degree of protection	IP20 / UL open type	· · · · · · · · · · · · · · · · · · ·		
Size	FSJ	V/f linear / square-law / parameter	rizable Yes	
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 / out		Encoderless torque control	Yes	
Standard digital inputs		Torque control, with encoder	No	
Number	6	Torque control, with encoder	NO	
Switching level: 0→1	11 V	Communication		
Switching level: $1 \rightarrow 0$	5 V	Communication	PROFINET, EtherNet/IP	
-		Conn	ections	
Max. inrush current	15 mA	Signal cable		
Fail-safe digital inputs	4	Conductor cross-section	0.15 1.50 mm <sup>2</sup>	
Number	1		(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	35.00 240.00 mm² (AWG 2 AWG -3)	
Number as transistor	0	Motor end		
Analog / digital inputs		Version	M12 screw	
Number	2 (Differential input)	Conductor cross-section	35.00 240.00 mm <sup>2</sup>	
Resolution	10 bit		(AWG 2 AWG -3)	
Switching threshold as digital input		DC link (for braking resistor)		
		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		Unshielded	200 m (656.17 ft)	
Number	1 (Non-isolated output)			
PTC/ KTY interface				

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

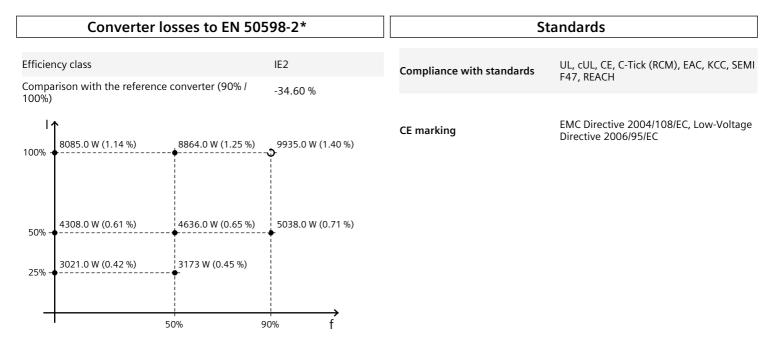


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The percentage values show the losses in relation to the rated apparent power of the converter.

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

# **Operator panel: Basic Operator Panel (BOP-2)**

Screen		Ambient conditions	
Display design	LCD, monochrome	Ambient temperature during	
		Operation	0 50 °C (32 122 °F)
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	0.14 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