

# **MLFB-Ordering data**

6SL3220-1YH56-0CB0



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data			General tech	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	5.402 kW	
Rated current (LO)	383.00 A	375.00 A	Filter class (integrated)	RFI suppression filter for Category C3	
Rated current (HO)	283.00 A	307.00 A			
Putput			EMC category (with accessories)	Category C3	
Number of phases	3 AC				
Rated voltage	690V IEC	600V NEC	Ambient conditions		
Rated power (LO)	315.00 kW	350.00 hp	Standard board coating type	Class 3C2, according to IEC 6072 3: 2002	
Rated power (HO)	250.00 kW	250.00 hp			
Rated current (LO)	330.00 A	345.00 A	Cooling	Air cooling using an integrated fa	
Rated current (HO)	250.00 A	295.00 A			
Rated current (IN)	368.00 A		Cooling air requirement	0.362 m³/s (12.784 ft³/s)	
Max. output current	487.00 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 ℃ (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), condensa	

**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 control techniques		
IP20 / UL open type				
FSH	V/f linear / square-law / paramete	r <b>izable</b> Yes		
158 kg (348.33 lb)	V/f with flux current control (FCC	) 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				
	Comm	unication		
	Communication	USS, Modbus RTU, BACnet MS/TP		
	Connections			
I5 MA	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	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 MCM 4 x 500)		
10 bit	DC link (for braking resistor)			
witching threshold as digital input		M12 screw		
4 V				
1.6 V	-	150 m (402 12 ft)		
	Sinelueu	150 m (492.13 ft)		
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   PUT   4 V   1.6 V	IP20 / UL open type Vf linear / square-law / parameter   FSH Vf with flux current control (FCC   158 kg (348.33 lb) Vf with flux current control (FCC   548 mm (21.57 in) Sensorless vector control   1695 mm (66.73 in) Sensorless vector control   393 mm (15.47 in) Encoderless torque control   tputs Torque control, with sensor   11 V Communication   5 V Communication   15 mA Signal cable   1 Conductor cross-section   1 Conductor cross-section   0 Motor end   0 Version   2 (Differential input) Conductor cross-section   10 bit DC link (for braking resistor)   Pt connection Max. motor cable length   1.6 V Shielded		

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

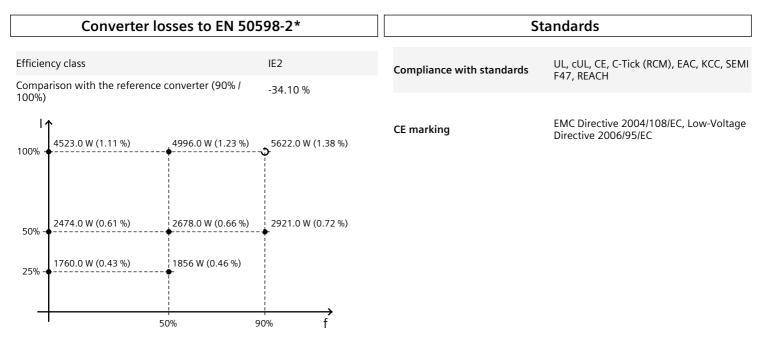


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Figure similar



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