

# **MLFB-Ordering data**

6SL3220-3YE24-0AB0



Figure similar

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

ltem no. :
Consignment no. :
Project :

Rated data			General tech.	General tech. specifications		
Input			Power factor λ	0.70 0.85		
Number of phases	3 AC		Offset factor cos φ	0.96		
Line voltage	380 480 V +10 % -20 %		Efficiency η	0.98		
Line frequency	47 63 Hz		Sound pressure level (1m)	63 dB		
Rated voltage	400V IEC	480V NEC	Power loss	0.245 kW		
Rated current (LO)	17.00 A	17.00 A	Filter class (integrated)	RFI suppression filter for Category C2		
Rated current (HO)	12.47 A	13.25 A	, j,			
Dutput			EMC category (with accessories)	Category C2		
Number of phases	3 AC					
Rated voltage	400V IEC	480V NEC	Ambient conditions			
Rated power (LO)	7.50 kW	10.00 hp	Standard board coating type	Class 3C2, according to IEC 60721- 3: 2002		
Rated power (HO)	5.50 kW	7.50 hp				
Rated current (LO)	18.00 A	14.00 A	Cooling	Air cooling using an integrated fan		
Rated current (HO)	13.20 A	11.00 A				
Rated current (IN)	18.50 A		Cooling air requirement	0.009 m³/s (0.325 ft³/s)		
Max. output current	24.00 A		Installation altitude	1000 m (3280.84 ft)		
Pulse frequency	4 kHz		Ambient temperature			
Output frequency for vector control	0 200 Hz		Operation	-20 45 °C (-4 113 °F)		
			Transport	-40 70 °C (-40 158 °F)		
Output frequency for V/f control	0 550 Hz		Storage	-25 55 °C (-13 131 °F)		
			Relative humidity			
			Max operation	95 % At 40 °C (104 °F), condensati		

### **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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			Figure s	
Mechanical data		Closed-loop control techniques		
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameter	izable Yes	
Size	FSB			
Net weight	6 kg (13.58 lb)	V/f with flux current control (FCC)	Yes	
Width	100 mm (3.94 in)	V/f ECO linear / square-law	Yes	
Height	275 mm (10.83 in)	Sensorless vector control Vector control, with sensor	Yes	
Depth	218 mm (8.58 in)			
Inputs / outputs		Encoderless torque control	Yes	
tandard digital inputs		Torque control, with encoder	No	
Number	6	Communication		
Switching level: 0→1	11 V			
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	screw-type terminal	
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	1.50 6.00 mm² (AWG 16 AWG 10)	
Number as transistor	0	Motor end		
Analog / digital inputs		Version	Screw-type terminals	
Number	2 (Differential input)	Conductor cross-section	1.50 6.00 mm² (AWG 16 AWG 10)	
Resolution	10 bit	DC link (for braking resistor)		
witching threshold as digital in	put	PE connection	On housing with M4 screw	
0→1	4 V	Max. motor cable length	on nousing with with sciew	
1→0	1.6 V	Shielded	150 m (492.13 ft)	
Analog outputs		Smelueu	(J) (1,2472, 13 (l)	
Number	1 (Non-isolated output)			
PTC/ KTY interface				

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

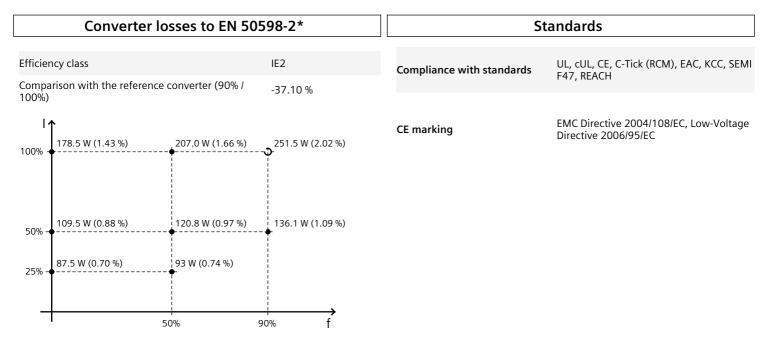


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Figure similar



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)**

Screen		Amb	Ambient conditions	
Display design	LCD colors	Ambient temperature dur	Ambient temperature during	
Screen resolution	320 x 240 Pixel	Operation	0 50 °C (32 122 °F)	
	520 / 2 10 11/01		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)			
			Approvals	
Depth	19.65 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM	