

# **MLFB-Ordering data**

6SL3220-3YE22-0UB0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data			General tech	General tech. specifications	
nput			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	0.181 kW	
Rated current (LO)	12.00 A	12.00 A	Filter class (integrated)	Unfiltered	
Rated current (HO)	9.27 A	9.75 A	The class (integrated)		
Putput			EMC category (with accessories)	without	
Number of phases	3 AC				
Rated voltage	400V IEC	480V NEC	Ambient conditions		
Rated power (LO)	5.50 kW	7.50 hp	Standard board coating type	Class 3C2, according to IEC 607. 3: 2002	
Rated power (HO)	4.00 kW	5.00 hp			
Rated current (LO)	13.20 A	11.00 A	Cooling	Air cooling using an integrated f	
Rated current (HO)	10.20 A	7.60 A			
Rated current (IN)	13.60 A		Cooling air requirement	0.009 m³/s (0.325 ft³/s)	
Max. output current	18.00 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), condens	

## **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		Figure similar Closed-loop control techniques			
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameter	rizable Yes		
Size	FSB	V/f with flux current control (FCC)	Yes		
Net weight	6 kg (12.85 lb)	V/f ECO linear / square-law	Yes		
Width	100 mm (3.94 in)	Sensorless vector control	Yes		
Height	275 mm (10.83 in)	Vector control, with sensor	No		
Depth	218 mm (8.58 in)	Encoderless torque control	Yes		
Inputs / out	tputs		tes		
Standard digital inputs		Torque control, with encoder	No		
Number	6	Commu	inication		
Switching level: 0→1	11 V				
Switching level: 1→0	5 V	Communication	USS, Modbus RTU, BACnet MS/TP		
Max. inrush current	15 mA	Connections			
Fail-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)			
Switching threshold as digital in	put	PE connection	On housing with M4 screw		
0→1	4 V	Max. motor cable length	on nousing with M4 sciew		
1→0	1.6 V	Shielded	150 m (492.13 ft)		
Analog outputs		Unshielded	300 m (984.25 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  $\pm 5~^\circ\mathrm{C}$ 

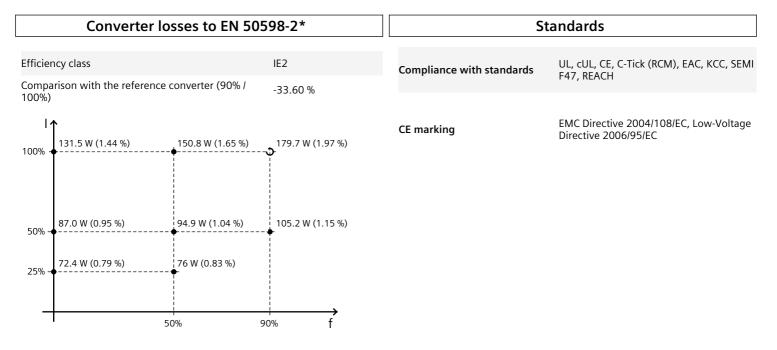


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Figure similar



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		Ambient conditions		
Display design	LCD colors	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	