

## **MLFB-Ordering data**

6SL3220-2YE54-0AB0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data			General tech. specifications	
ut			Power factor $\lambda$	
Number of phases	3 AC		Offset factor cos φ	
Line voltage	380 480 V	′ +10 % -20 %	Efficiency η	
Line frequency	47 63 Hz		Sound pressure level (1m)	
Rated voltage	400V IEC	480V NEC	Power loss	
Rated current (LO) Rated current (HO)	482.00 A 400.00 A	471.00 A 392.00 A	Filter class (integrated)	
tput			EMC category (with accessories)	
Number of phases Rated voltage	3 AC 400V IEC	480V NEC	Ambient conditions	
Rated power (LO)	250.00 kW	400.00 hp	Standard board coating type	Class 3 3: 200
Rated power (HO)	200.00 kW	250.00 hp		
Rated current (LO)	477.00 A	477.00 A	Cooling	Air co
Rated current (HO)	370.00 A	361.00 A		
Rated current (IN)	488.00 A		Cooling air requirement	0.210
Max. output current	644.00 A		Installation altitude	1000
Pulse frequency	2 kHz		Ambient temperature	
Output frequency for vector control	0 200 Hz		Operation	-20 4
			Transport	-40 1
Output frequency for V/f control	0 550 Hz		Storage	-25
			Relative humidity	
			Max operation	95 % At

### **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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			F	
Mechanical data		Closed-loop control techniques		
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameterizable Yes		
Size	FSG	······································		
Net weight	120 kg (264.56 lb)	V/f with flux current control (FCC)	) Yes	
Width	305 mm (12.01 in)	V/f ECO linear / square-law	Yes	
Height	999 mm (39.33 in)	Sensorless vector control	Yes	
Depth	369 mm (14.53 in)	Vector control, with sensor	No	
Inputs / out		Encoderless torque control	Yes	
tandard digital inputs		Torque control, with encoder	No	
Number	6		•	
Switching level: 0→1	11 V	Communication		
Switching level: 1→0	5 V	Communication USS, Modbus RTU, BAC		
Max. inrush current	15 mA	Connections		
ail-safe digital inputs	13 11/1	Signal cable		
Number	1	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)	
igital outputs		Line side		
Number as relay changeover contact	2	Version	M10 screw	
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	35.00 185.00 mm² (AWG 1 MCM 2 x 350)	
Number as transistor	0	Motor end		
nalog / digital inputs		Version	M10 screw	
Number	2 (Differential input)	Conductor cross-section	35.00 185.00 mm² (AWG 1 MCM 2 x 350)	
Resolution	10 bit	DC link (for braking resistor)		
witching threshold as digital inp	out	PE connection	M10 screw	
0→1	4 V			
1→0	1.6 V	Max. motor cable length		
analog outputs		Shielded	150 m (492.13 ft)	
Number	1 (Non-isolated output)			
TC/ KTY interface				

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

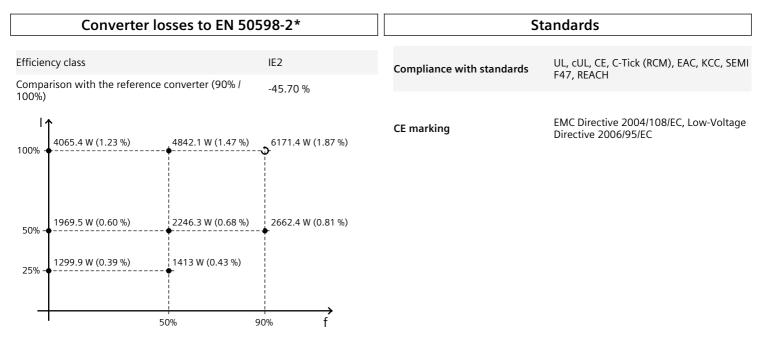


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The percentage values show the losses in relation to the rated apparent power of the converter.

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

# **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	