

# **MLFB-Ordering data**

6SL3220-1YE66-0CB0



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

Item no. :
Consignment no. :
Project :

Rated data			General tech.	. specifications
nput			Power factor λ	0.75 0.93
Number of phases	3 AC		Offset factor cos φ	0.96
Line voltage	380 480 V +10 % -10 %		- Efficiency η	0.98
Line frequency	47 63 Hz		Sound pressure level (1m)	74 dB
Rated voltage	400V IEC	480V NEC	Power loss	12.496 kW
Rated current (LO)	1061.00 A	862.00 A	Filter class (integrated)	RFI suppression filter for Category C3
Rated current (HO)	816.00 A	677.00 A		
utput			EMC category (with accessories)	Category C3
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC	Ambient conditions	
Rated power (LO)	560.00 kW	700.00 hp	Standard board coating type	Class 3C2, according to IEC 60721 3: 2002
Rated power (HO)	450.00 kW	500.00 hp		
Rated current (LO)	1000.00 A	830.00 A	Cooling	Air cooling using an integrated far
Rated current (HO)	890.00 A	652.00 A		
Rated current (IN)	1021.00 A		Cooling air requirement	0.450 m³/s (15.892 ft³/s)
Max. output current	1350.00 A		Installation altitude	1000 m (3280.84 ft)
Pulse frequency	4 kHz		Ambient temperature	
Output frequency for vector control	0 100 Hz		Operation	0 45 °C (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), condensat 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



# **MLFB-Ordering data**

6SL3220-1YE66-0CB0



Mechanical data		Closed-loop control techniques		
Degree of protection	IP20 / UL open type		·	
Size	FSJ	V/f linear / square-law / parameter	izable Yes	
Net weight	250 kg (551.16 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		NO	
Switching level: 0→1	11 V	Communication		
		Communication	USS, Modbus RTU, BACnet MS/TP	
Switching level: 1→0	5 V	Connections		
Max. inrush current	15 mA	Signal cable		
Fail-safe digital inputs		Conductor cross-section	0.15 1.50 mm²	
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	240.00 mm² (MCM 4 x 500 MCM 6 x 500)	
Number as transistor	0	Motor end		
Analog / digital inputs		Version	M12 screw	
Number	2 (Differential input)	Conductor cross-section	240.00 mm² (MCM 4 x 500 MCM 8 x 500)	
Resolution	10 bit	DC link (for braking resistor)		
Switching threshold as digital input		-	1412	
0→1	4 V	PE connection	M12 screw	
1→0	1.6 V	Max. motor cable length		
Analog outputs		Shielded	150 m (492.13 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  $\pm 5~^\circ\mathrm{C}$ 

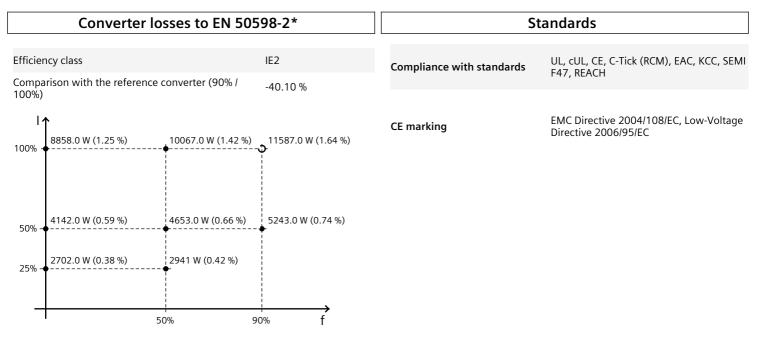


### **MLFB-Ordering data**

#### 6SL3220-1YE66-0CB0



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