

## **MLFB-Ordering data**

6SL3220-2YE52-0CB0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data			General tech. specifications		
put			Power factor $\lambda$	0.90 0.95	
Number of phases	3 AC		Offset factor cos φ	0.99	
Line voltage	380 480 V	′ +10 % -20 %	Efficiency η	0.98	
Line frequency	47 63 Hz		Sound pressure level (1m)	74 dB	
Rated voltage	400V IEC	480V NEC	Power loss	4.620 kW	
Rated current (LO)	374.00 A	356.00 A	Filter class (integrated)	RFI suppress Category C3	
Rated current (HO)	330.00 A	327.00 A		Category Ca	
utput			EMC category (with accessories)	Category C3	
Number of phases	3 AC				
ated voltage	400V IEC	480V NEC	Ambient conditions		
Rated power (LO)	200.00 kW	300.00 hp	Standard board coating type	Class 3C2, accordi 3: 2002	
Rated power (HO)	160.00 kW	200.00 hp			
Rated current (LO)	370.00 A	361.00 A	Cooling	Air cooling using a	
Rated current (HO)	302.00 A	302.00 A			
Rated current (IN)	379.00 A		Cooling air requirement	0.210 m³/s (7.416	
Max. output current	500.00 A		Installation altitude	1000 m (3280.84	
Pulse frequency	2 kHz		Ambient temperature		
Dutput frequency for vector control	0 200 Hz		Operation	-20 45 °C (-4	
			Transport	-40 70 °C (-40	
Output frequency for V/f control	0 550 Hz		Storage	-25 55 °C (-13	
			Relative humidity		
			Max operation	95 % At 40 °C (104	

### **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 cor	Closed-loop control techniques	
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameteri	zable Yes	
Size	FSG	V/f with flux automatic control (FCC)	Yes	
Net weight	113 kg (249.12 lb)	V/f with flux current control (FCC)	Yes	
Width	305 mm (12.01 in)	V/f ECO linear / square-law Sensorless vector control	Yes	
Height	999 mm (39.33 in)	Vector control, with sensor	No	
Depth	369 mm (14.53 in)			
Inputs / out	tputs	Encoderless torque control	Yes	
tandard digital inputs		Torque control, with encoder	No	
Number	6	Commu	nication	
Switching level: 0→1	11 V			
Switching level: 1→0	5 V	Communication USS, Modbus RTU, BAC		
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)	
Pigital 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 in	put	PE connection	M10 screw	
0→1	4 V	Max. motor cable length		
1→0	1.6 V	Shielded	200 m (656.17 ft)	
analog outputs				
Number	1 (Non-isolated output)			
TC/ KTY interface				

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

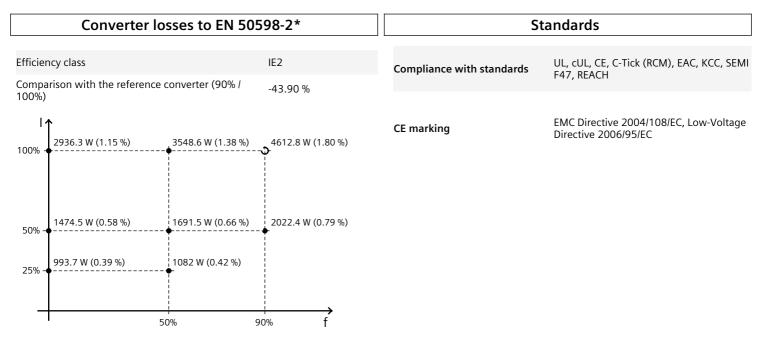


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The percentage values show the losses in relation to the rated apparent power of the converter.

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		Ambi	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)				
Depth	19.60 mm (0.77 in)	Certificate of suitability	Approvals CE, cULus, EAC, KCC, RCM		