

# **MLFB-Ordering data**

6SL3220-2YE50-0AF0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data		General tech	General tech. specifications		
Input			Power factor λ	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	3.670 kW	
Rated current (LO)	308.00 A 275.00 A	301.00 A 263.00 A	Filter class (integrated)	RFI suppression filter for Category C2	
Rated current (HO) Dutput	275.00 A	263.00 A	EMC category (with accessories)	Category C2	
Number of phases Rated voltage	3 AC 400V IEC	480V NEC	Ambient	Ambient conditions	
Rated power (LO)	160.00 kW	250.00 hp	Standard board coating type	Class 3C2, according to IEC 60721- 3: 2002	
Rated power (HO)	132.00 kW	150.00 hp			
Rated current (LO)	302.00 A	302.00 A	Cooling	Air cooling using an integrated fan	
Rated current (HO)	250.00 A	240.00 A			
Rated current (IN)	309.00 A		Cooling air requirement	0.210 m³/s (7.416 ft³/s)	
Max. output current	408.00 A		Installation altitude	1000 m (3280.84 ft)	
Pulse frequency	2 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 ℃ (-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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Mechanical data		Closed-loop co	Closed-loop control techniques	
legree of protection	IP20 / UL open type	V/f linear / square-law / paramete	rizable Yes	
ize	FSG			
Net weight	105 kg (231.49 lb)	V/f with flux current control (FCC		
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	Yes	
Depth	369 mm (14.53 in)			
Inputs / ou	tputs	Encoderless torque control	Yes	
andard digital inputs		Torque control, with encoder	No	
Number	6	Comm	unication	
Switching level: 0→1	11 V	Communication		
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)	
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 in	put	PE connection	M10 screw	
0→1	4 V	Max. motor cable length		
1→0	1.6 V	Shielded	150 m (492.13 ft)	
nalog 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  $\pm 5~^\circ\mathrm{C}$ 

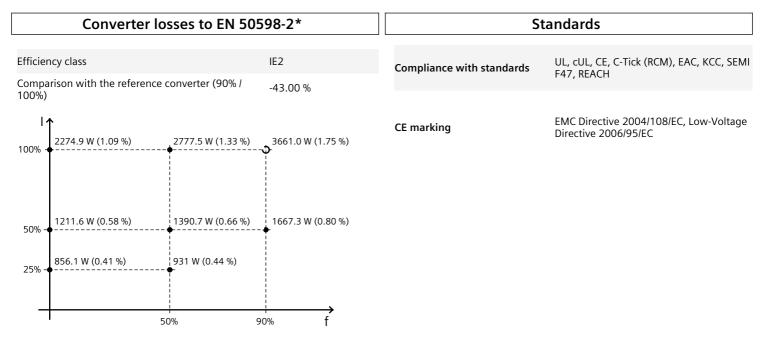


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The percentage values show the losses in relation to the rated apparent power of the converter.

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		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