

## **MLFB-Ordering data**

6SL3220-3YE58-0CF0



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

ltem 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	7.687 kW
Rated current (LO)	668.00 A	525.00 A	Filter class (integrated)	RFI suppressio Category C3
Rated current (HO)	501.00 A	402.00 A		
utput			EMC category (with accessories)	Category C3
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC	Ambient conditions	
Rated power (LO)	355.00 kW	450.00 hp	Standard board coating type	Class 3C2, according 3: 2002
Rated power (HO)	250.00 kW	300.00 hp		
Rated current (LO)	640.00 A	515.00 A	Cooling	Air cooling using an i
Rated current (HO)	570.00 A	394.00 A		
Rated current (IN)	655.00 A		Cooling air requirement	0.362 m³/s (12.784 f
Max. output current	864.00 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 ℃ (32 113
			Transport	-40 70 °C (-40 1
Output frequency for V/f control	0 100 Hz		Storage	-25 55 °C (-13 1
			Relative humidity	
			Max operation	95 % At 40 °C (104 °F

## **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	Figure sim		
Degree of protection	IP20 / UL open type				
Size	FSH	V/f linear / square-law / paramete	erizable Yes		
Net weight	157 kg (346.13 lb)	V/f with flux current control (FCC	C) Yes		
Width	548 mm (21.57 in)	V/f ECO linear / square-law	Yes		
Height	1695 mm (66.73 in)	Sensorless vector control	Yes		
Depth	393 mm (15.47 in)	Vector control, with sensor	No		
Inputs / out		Encoderless torque control	Yes		
tandard digital inputs	iputs	Torque control, with encoder	No		
Number	6	Torque control, with encoder	NO		
	11 V	Communication			
Switching level: $0 \rightarrow 1$		Communication	PROFINET, EtherNet/IP		
Switching level: 1→0	5 V	Connections			
Max. inrush current	15 mA	Signal cable			
ail-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 2 x 500 MCM 4 x 500)		
Number as transistor	0	Motor end			
nalog / digital inputs		Version	M12 screw		
Number	2 (Differential input)	Conductor cross-section	240.00 mm <sup>2</sup>		
Resolution	10 bit		(MCM 2 x 500 MCM 4 x 500)		
witching threshold as digital in	out	DC link (for braking resistor)			
		PE connection	M12 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)				
PTC/ KTY interface					

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

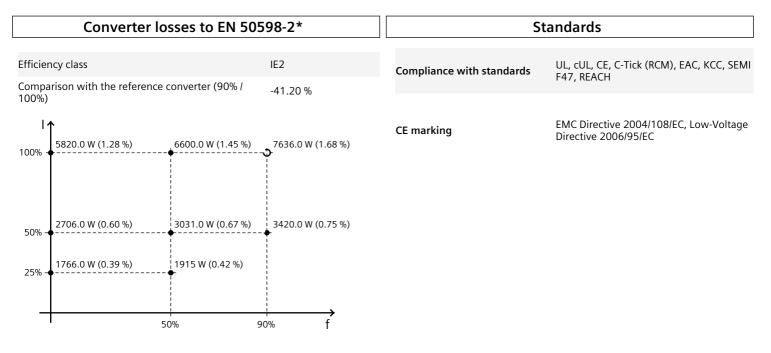


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Figure similar



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	