

## **MLFB-Ordering data**

6SL3220-3YH64-1CB0



Figure similar

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	500 690 V +10 % -10 %		Efficiency η	0.98	
Line frequency	47 63 Hz		Sound pressure level (1m)	74 dB	
Rated voltage	690V IEC	600V NEC	Power loss	8.134 kW	
Rated current (LO)	596.00 A	591.00 A	Filter class (integrated)	RFI suppression filter t Category C3	
Rated current (HO)	461.00 A	501.00 A		Category Co	
utput			EMC category (with accessories)	Category C3	
Number of phases	3 AC				
Rated voltage	690V IEC	600V NEC	Ambient conditions		
Rated power (LO)	500.00 kW	500.00 hp	Standard board coating type	Class 3C2, according to IEC 6 3: 2002	
Rated power (HO)	450.00 kW	500.00 hp			
Rated current (LO)	520.00 A	546.00 A	Cooling	Air cooling using an integrat	
Rated current (HO)	470.00 A	482.00 A			
Rated current (IN)	581.00 A		Cooling air requirement	0.450 m³/s (15.892 ft³/s)	
Max. output current	768.00 A		Installation altitude	1000 m (3280.84 ft)	
Pulse frequency	2 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), cond	

### **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 control techniques		
Degree of protection	IP20 / UL open type		• • •	
Size	FSJ	V/f linear / square-law / parameter	r <b>izable</b> Yes	
Net weight	236 kg (520.29 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 / outputs		Encoderless torque control	Yes	
Standard digital inputs	p =	Torque control, with encoder	No	
Number	6			
Switching level: 0→1	11 V	Communication		
Switching level: 1→0	5 V	Communication	USS, Modbus RTU, BACnet MS/TP	
Max. inrush current	15 mA	Connections		
Fail-safe digital inputs		Signal cable		
Number	1	Conductor cross-section	0.15 1.50 mm² (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 inp	put	-	M12	
0→1	4 V	PE connection	M12 screw	
1→0	1.6 V	Max. motor cable length	150 (402.42.4)	
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  $\pm 5~^\circ\mathrm{C}$ 

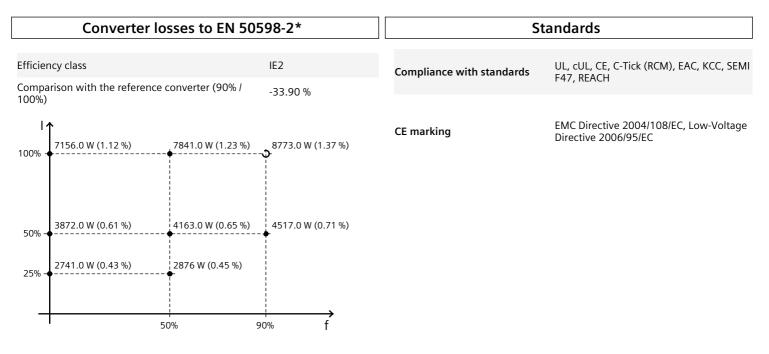


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The percentage values show the losses in relation to the rated apparent power of the converter.

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: Intelligent Operator Panel (IOP-2)**

Screen		Ambient conditions	
Display design	LCD colors	Ambient temperature during	
Screen resolution		Operation	0 50 °C (32 122 °F)
	320 x 240 Pixel		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 du	ıring
Width	70.0 mm (2.76 in)	Max. operation	95 %
Height	106.85 mm (4.21 in)		
Donth	10 (E mm (0.77 in)	Approvals	
Depth	19.65 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM

## I/O Extension Module

Technical specifications for the I/O Extension Modul are available via direct input (MLFB 6SL3255-0BE00-0AA0).