

## **MLFB-Ordering data**

6SL3220-3YH62-1CF0



Figure similar

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	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	7.716 kW	
Rated current (LO)	489.00 A	526.00 A	Filter class (integrated)	RFI suppression filter Category C3	
Rated current (HO)	410.00 A	440.00 A			
ıtput			EMC category (with accessories)	Category C3	
Number of phases	3 AC				
ated voltage	690V IEC	600V NEC	Ambient conditions		
Rated power (LO)	450.00 kW	500.00 hp	Standard board coating type	Class 3C2, according to 3: 2002	
Rated power (HO)	400.00 kW	450.00 hp			
Rated current (LO)	470.00 A	487.00 A	Cooling	Air cooling using an in	
Rated current (HO)	394.00 A	423.00 A			
Rated current (IN)	516.00 A		Cooling air requirement	0.362 m³/s (12.784 ft³)	
Max. output current	682.00 A		Installation altitude	1000 m (3280.84 ft)	
ulse frequency	2 kHz		Ambient temperature		
output frequency for vector control	0 100 Hz		Operation	0 45 ℃ (32 113 ℉	
· · ·			Transport	-40 70 °C (-40 158	
utput frequency for V/f control	0 100 Hz		Storage	-25 55 °C (-13 131	
			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 Degree of protection Size Net weight Width Height Depth	IP20 / UL open type   FSH   162 kg (357.15 lb)   548 mm (21.57 in)   1695 mm (66.73 in)   393 mm (15.47 in)	V/f linear / square-law / parameter V/f with flux current control (FCC) V/f ECO linear / square-law Sensorless vector control		
Size Net weight Width Height Depth	FSH 162 kg (357.15 lb) 548 mm (21.57 in) 1695 mm (66.73 in)	V/f with flux current control (FCC) V/f ECO linear / square-law	Yes	
Net weight Width Height Depth	162 kg (357.15 lb) 548 mm (21.57 in) 1695 mm (66.73 in)	V/f ECO linear / square-law		
Width Height Depth	548 mm (21.57 in) 1695 mm (66.73 in)		Yes	
Height Depth	1695 mm (66.73 in)			
Depth			Yes	
-	393 mm (15.47 in)	Vector control, with sensor	No	
		Encoderless torque control	Yes	
Inputs / out	puts			
Standard digital inputs		Torque control, with encoder	No	
Number	6	Communication		
Switching level: 0→1	11 V	Communication PROFINET, EtherNet/IP		
Switching level: 1→0	5 V			
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 2 x 500 MCM 4 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 2 x 500 MCM 4 x 500)	
Resolution	10 bit	DC link (for braking resistor)		
Switching threshold as digital in	out	PE connection	M12 screw	
0→1	4 V	Max. motor cable length		
1→0	1.6 V	Shielded	150 m (492.13 ft)	
Analog 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  $\pm 5~^\circ\mathrm{C}$ 

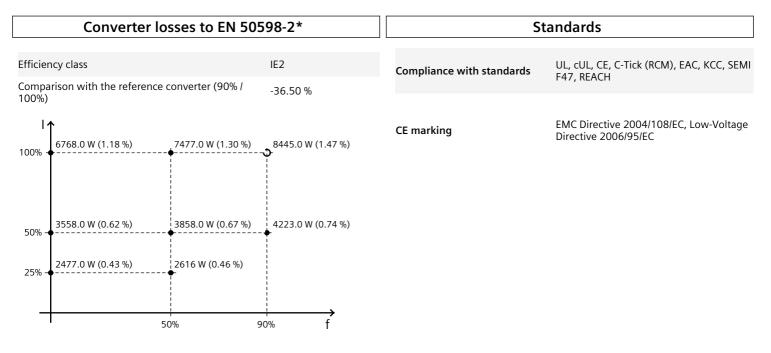


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Figure similar



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		
		Operation	0 50 °C (32 122 °F)	
Screen resolution	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)		55 10	
Dauth	10 (F (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).