

# **MLFB-Ordering data**

6SL3220-3YH60-1CP0



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	6.884 kW	
Rated current (LO)	471.00 A	461.00 A		RFI suppression filter for Category C3	
Rated current (HO)	362.00 A	381.00 A	Filter class (integrated)		
Putput			EMC category (with accessories)	Category C3	
Number of phases	3 AC				
Rated voltage	690V IEC	600V NEC	Ambient conditions		
Rated power (LO)	400.00 kW	450.00 hp	Standard board coating type	Class 3C2, according to IEC 607 3: 2002	
Rated power (HO)	355.00 kW	400.00 hp			
Rated current (LO)	420.00 A	432.00 A	Cooling	Air cooling using an integrated	
Rated current (HO)	385.00 A	367.00 A			
Rated current (IN)	453.00 A		Cooling air requirement	0.362 m³/s (12.784 ft³/s)	
Max. output current	598.00 A		Installation altitude	1000 m (3280.84 ft)	
Pulse frequency	2 kHz		Ambient temperature		
Output frequency for vector control	rol 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), condens	

**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 simila ntrol techniques
Mechanical data			intion techniques
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameter	rizable Yes
Size	FSH	V/f with flux current control (FCC)	Yes
Net weight	162 kg (357.15 lb)	V/f ECO linear / square-law	Yes
Width	548 mm (21.57 in)	Sensorless vector control	Yes
Height	1695 mm (66.73 in)	Vector control, with sensor	No
Depth	393 mm (15.47 in)	Encoderless torque control	Yes
Inputs / out	tputs		103
Standard digital inputs		Torque control, with encoder	No
Number	6	Commi	unication
Switching level: 0→1	11 V		
Switching level: 1→0	5 V	Communication PROFIBUS DP	
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	put	PE connection	M12 screw
0→1	4 V	Max. motor cable length	
1→0	1.6 V	Shielded	150 m (402.12 ft)
Analog outputs		Sillelueu	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  $\pm 5~^\circ\mathrm{C}$ 

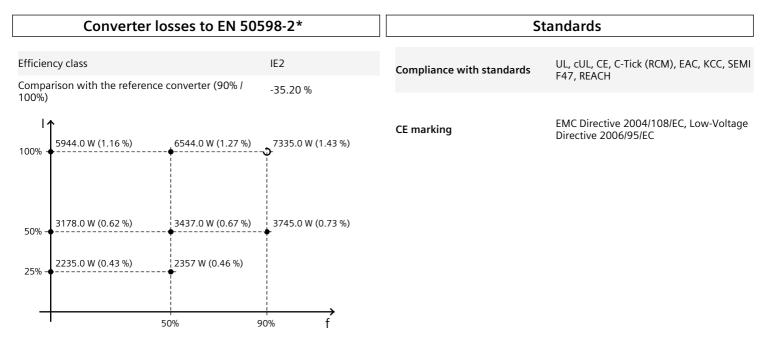


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The percentage values show the losses in relation to the rated apparent power of the converter.

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   Ambient temperature during	
isplay design LCD colors			
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)		95 10
-		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).