

MLFB-Ordering data

6SL3220-3YH64-1CF0



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	8.134 kW
Rated current (LO)	596.00 A	591.00 A	Filter class (integrated)	RFI suppression filter for Category C3
Rated current (HO)	461.00 A	501.00 A	Filter class (integrated)	
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 60 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 integrate
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	

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

95 % At 40 °C (104 °F), condensation and icing not permissible



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			Figure simila	
Mechanical data		Closed-loop control techniques		
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameter	rizable Yes	
Size	FSJ	V/f with flux current control (FCC)	Yes	
Net weight	236 kg (520.29 lb)	V/f ECO linear / square-law	Yes	
Width	801 mm (31.54 in)	Sensorless vector control	Yes	
Height	1621 mm (63.82 in)	Vector control, with sensor	No	
Depth	393 mm (15.47 in)	Encoderless torque control	Yes	
Inputs / out	tputs		105	
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 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 in	put	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				

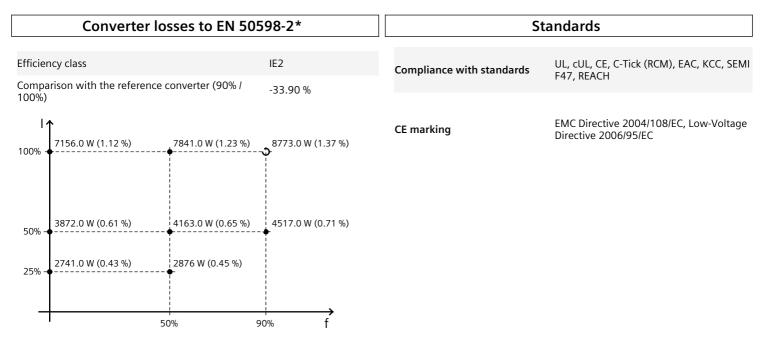
1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy $\pm 5~^\circ\mathrm{C}$



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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	
Display 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).