

MLFB-Ordering data

6SL3220-2YE58-0CB0



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

Remarks:

Item no. : Consignment no. :

Project:

Rated data		
Input		
Number of phases	3 AC	
Line voltage	380 480 V	/ +10 % -10 %
Line frequency	47 63 Hz	
Rated voltage	400V IEC	480V NEC
Rated current (LO)	668.00 A	525.00 A
Rated current (HO)	501.00 A	402.00 A

General tech. specifications			
Power factor λ	0.75 0.93		
Offset factor cos φ	0.96		
Efficiency η	0.98		
Sound pressure level (1m)	74 dB		
Power loss	7.687 kW		
Filter class (integrated)	RFI suppression filter for Category C3		
EMC category (with accessories)	Category C3		

Output		
Number of phases	3 AC	
Rated voltage	400V IEC	480V NEC
Rated power (LO)	355.00 kW	450.00 hp
Rated power (HO)	250.00 kW	300.00 hp
Rated current (LO)	640.00 A	515.00 A
Rated current (HO)	570.00 A	394.00 A
Rated current (IN)	655.00 A	
Max. output current	864.00 A	
Pulse frequency	4 kHz	
Output frequency for vector control	0 100 Hz	
Output frequency for V/f control	0 100 Hz	

Ambient conditions			
Standard board coating type	Class 3C2, according to IEC 60721-3-3: 2002		
Cooling	Air cooling using an integrated fan		
Cooling air requirement	0.362 m³/s (12.784 ft³/s)		
Installation altitude	1000 m (3280.84 ft)		
Ambient temperature			
Operation	0 45 °C (32 113 °F)		
Transport	-40 70 °C (-40 158 °F)		
Storage	-25 55 °C (-13 131 °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

Relative humidity

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



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			Figu
Mechanical data		Closed-loop contro	l techniques
Degree of protection Size	IP20 / UL open type	V/f linear / square-law / parameterizable	e Yes
Net weight	157 kg (346.13 lb)	V/f with flux current control (FCC)	Yes
Width	548 mm (21.57 in)	V/f ECO linear / square-law	Yes
	1695 mm (66.73 in)	Sensorless vector control	Yes
Height		Vector control, with sensor	No
Depth	393 mm (15.47 in)	Encoderless torque control	Yes
Inputs / ou	tputs		
tandard digital inputs		Torque control, with encoder	No
Number	6	Communication	
Switching level: 0→1	11 V		5, Modbus RTU, BACnet MS/T
Switching level: 1→0	5 V	Connections	
Max. inrush current	15 mA		ons
ail-safe digital inputs		Signal cable	
Number	1	(ONGLICTOR CROSS-SACTION	5 1.50 mm² VG 24 AWG 16)
igital outputs		Line side	
Number as relay changeover contact	2	Version M1	2 screw
Output (resistive load)	DC 30 V, 5.0 A		0.00 mm² CM 2 x 500 MCM 4 x 500)
Number as transistor	0	Motor end	
nalog / digital inputs		Version M1	2 screw
Number	2 (Differential input)		0.00 mm² CM 2 x 500 MCM 4 x 500)
Resolution	10 bit		x 500 W.c.w. 1 x 500)
witching threshold as digital in	out	DC link (for braking resistor)	
0→1	4 V	PE connection M1	2 screw
		Max. motor cable length	
1→0	1.6 V	Shielded 150) m (492.13 ft)
nalog outputs			

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

1 (Non-isolated output)

Number

PTC/ KTY interface



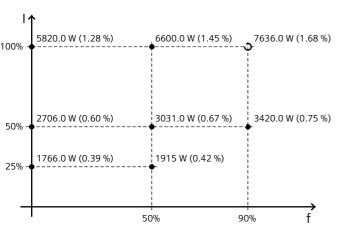
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Converter I	osses to	ΕN	50598-	2*
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Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-41.20 %



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.

Standards

Compliance with standards UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH

CE marking EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC

Operator panel: Basic Operator Panel (BOP-2)

S	creen	Ambi	ient conditions
Display design	LCD, monochrome	Ambient temperature during	
		Operation	0 50 °C (32 122 °F)
Mech	anical data	Storage	-40 70 °C (-40 158 °F)
Degree of protection	IP55 / UL type 12	Transport	-40 70 °C (-40 158 °F)
Net weight	0.14 kg (0.31 lb)	Relative humidity at 25°C d	during
Width	70.0 mm (2.76 in)	Max. operation	95 %
Height	106.85 mm (4.21 in)	·	
Depth	19.60 mm (0.77 in)		Approvals
		Certificate of suitability	CE, cULus, EAC, KCC, RCM

^{*}converted values