

## **MLFB-Ordering data**

6SL3220-3YE64-0CB0



Client order no. : Order no. :

Item no.: Consignment no. :

Project :

Offer no. : Remarks:

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	380 480 V	+10 % -10 %	Efficiency η	0.98
Line frequency	47 63 Hz		Sound pressure level (1m)	74 dB
Rated voltage	400V IEC	480V NEC	Power loss	10.885 kW
Rated current (LO)	945.00 A	751.00 A	Filter class (integrated)	RFI suppression filter fo
Rated current (HO)	756.00 A	614.00 A	The class (integrated)	Category C3
Output			EMC category (with accessories)	Category C3
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC	Ambient conditions	
Rated power (LO)	500.00 kW	600.00 hp	Standard board coating type	Class 3C2, according to IEC 6C 3: 2002
Rated power (HO)	400.00 kW	500.00 hp		
Rated current (LO)	890.00 A	724.00 A	Cooling	Air cooling using an integrated
Rated current (HO)	820.00 A	591.00 A		
Rated current (IN)	910.00 A		Cooling air requirement	0.450 m³/s (15.892 ft³/s)
Max. output current	1202.00 A		Installation altitude	1000 m (3280.84 ft)
Pulse frequency	4 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			Max. operation	95 % At 40 °C (104 °F), conder and icing not permissible

#### 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

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			Figure		
Mechanical data		Closed-loop con	Closed-loop control techniques		
Degree of protection	IP20 / UL open type				
Size	FSJ	V/f linear / square-law / parameteri	<b>zable</b> Yes		
Net weight	250 kg (551.16 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 / ou		Encoderless torque control	Yes		
tandard digital inputs	ipuis	Torque control, with encoder	No		
Number	6	Torque control, with encoder	NO		
		Communication			
Switching level: 0→1	11 V	Communication	USS, Modbus RTU, BACnet MS/TI		
Switching level: 1→0	5 V	Connections			
Max. inrush current	15 mA	Signal cable			
ail-safe digital inputs	1	Conductor cross-section	0.15 1.50 mm <sup>2</sup>		
igital outputs	ı	Line side	(AWG 24 AWG 16)		
	-	Version	M12 screw		
Number as relay changeover contact	2	version			
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	240.00 mm <sup>2</sup> (MCM 4 x 500 MCM 6 x 500)		
Number as transistor	0	Motor end			
nalog / digital inputs		Version	M12 screw		
Number	2 (Differential input)	Conductor cross-section	240.00 mm <sup>2</sup>		
Resolution	10 bit		MCM 4 x 500 MCM 8 x 500)		
witching threshold as digital in	put	DC link (for braking resistor)			
-		PE connection	M12 screw		
0→1	4 V	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

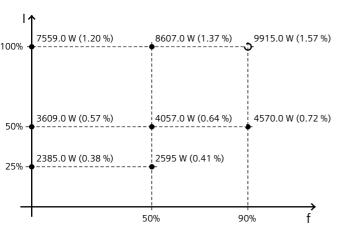


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Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-38.50 %



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

**Standards** 

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

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.

# Operator panel: Intelligent Operator Panel (IOP-2)

S	creen	Ambie	ent conditions
Display design	LCD colors	LCD colors Ambient temperature during	
Screen resolution	320 x 240 Pixel	Operation	0 50 °C (32 122 °F)
screen resolution	320 X 240 PIXEI		55 °C only with door mounting kit
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	0.13 kg (0.30 lb)	Relative humidity at 25°C du	uring
Width	70.0 mm (2.76 in)	Max. operation	95 %
Height	106.85 mm (4.21 in)		pprovals
Depth	19.65 mm (0.77 in)		Approvais
		Certificate of suitability	CE, cULus, EAC, KCC, RCM

<sup>\*</sup>converted values