

## **MLFB-Ordering data**

6SL3220-2YE22-0UB0



Client order no. :

Item no.: Consignment no. : Project :

Order no. :		
Offer no. :		
Remarks :		

Rated da	ata		General te	ch.
Input			Power factor λ	
Number of phases	3 AC		Offset factor cos φ	
Line voltage	380 480 V	′ +10 % -20 %	Efficiency η	
Line frequency	47 63 Hz		Sound pressure level (1m)	
Rated voltage	400V IEC	480V NEC	Power loss	
Rated current (LO)	12.00 A	12.00 A	Filter class (integrated)	
Rated current (HO)	9.27 A	9.75 A	,	
Output			EMC category (with accessories)	
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC	Ambient	t
Rated power (LO)	5.50 kW	7.50 hp	Standard board coating type	
Rated power (HO)	4.00 kW	5.00 hp		
Rated current (LO)	13.20 A	11.00 A	Cooling	
Rated current (HO)	10.20 A	7.60 A		
Rated current (IN)	13.60 A		Cooling air requirement	
Max. output current	18.00 A		Installation altitude	
Pulse frequency	4 kHz		Ambient temperature	
Output frequency for vector control	0 200 Hz		Operation	
			Transport	
Output frequency for V/f control	0 550 Hz		Storage	
			Relative humidity	
			Max. operation	

## **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



## **MLFB-Ordering data**

6SL3220-2YE22-0UB0



			Figure similar	
Mechanical data		Closed-loop control techniques		
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameterizable Yes		
Size	FSB	V/f with flux current control (FCC) Yes		
Net weight	6 kg (12.85 lb)			
Width	100 mm (3.94 in)	V/f ECO linear / square-law Yes		
Height	275 mm (10.83 in)	Vector control, with sensor  No		
Depth	218 mm (8.58 in)			
Inputs / ou	tputs	Encoderless torque control Yes		
Standard digital inputs		Torque control, with encoder	No	
Number	6	Commu	nication	
Switching level: 0→1	11 V			
Switching level: 1→0	5 V	Communication USS, Modbus RTU, BACnet N		
Max. inrush current	15 mA	Connections		
Fail-safe digital inputs		Signal cable		
Number	1	Conductor cross-section	0.15 1.50 mm <sup>2</sup> (AWG 24 AWG 16)	
Digital outputs		Line side		
Number as relay changeover contact	2	Version	screw-type terminal	
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	1.50 6.00 mm <sup>2</sup> (AWG 16 AWG 10)	
Number as transistor	0	Motor end		
Analog / digital inputs		Version	Screw-type terminals	
Number	2 (Differential input)	Conductor cross-section 1.50 6.00 mm <sup>2</sup> (AWG 16 AWG 10)		
Resolution	10 bit	DC link (for braking resistor)		
Switching threshold as digital in	put	PE connection	On housing with M4 screw	
0→1	4 V	Max. motor cable length		
1→0	1.6 V	Shielded	150 m (492.13 ft)	
Analog outputs		Unshielded	300 m (984.25 ft)	
Number	1 (Non-isolated output)		333 (30 1.23 1.)	
PTC/ KTY interface				

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



## **MLFB-Ordering data**

6SL3220-2YE22-0UB0



Converter losses to EN 50	598-2*	Standards	
Efficiency class  Comparison with the reference converter (90% /	IE2 -33.60 %	Compliance with standards	UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH
100%)    ↑   131.5 W (1.44 %)   150.8 W (1.65 %)	. 179.7 W (1.97 %)	CE marking	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC
100%	<b>3</b> 173.7 W (1.37 %)		
87.0 W (0.95 %) 94.9 W (1.04 %)	105.2 W (1.15 %)		
72.4 W (0.79 %) 76 W (0.83 %)			
50%	90% f		

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.

<sup>\*</sup>converted values

Operator panel: Basic Operator Panel (BOP-2)				
Screen		Ambient conditions		
Display design	LCD, monochrome	Ambient temperature during		
		Operation	0 50 °C (32 122 °F)	
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	0.14 kg (0.31 lb)	Relative humidity at 25°C d	uring	
Width	70.0 mm (2.76 in)	Max. operation	95 %	
Height	106.85 mm (4.21 in)		Approvals	
Depth	19.60 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM	