

# MLFB-Ordering data

6SL3220-3YE14-0UF0



Client order no. : Order no. : Item no. : Consignment no. : Project :

Offer no. : Remarks :

		<b>-</b> -		
		Power factor λ	0.70 0.85	
3 AC		Offset factor cos φ	0.96	
380 480 \	′ +10 % -20 %	Efficiency n	0.98	
47 63 Hz		Sound pressure level (1m)	55 dB	
400V IEC	480V NEC	Power loss	0.060 kW	
3.60 A	3.00 A			
2.72 A	2.70 A	Filter class (integrated)	Unfiltered	
		EMC category (with accessories)	without	
3 AC				
400V IEC	480V NEC	Ambient conditions		
1.50 kW	2.00 hp	Standard board coating type	Class 3C2, according to IEC 6 3: 2002	
1.10 kW	1.50 hp			
4.10 A	3.40 A	Cooling	Air cooling using an integrate	
3.10 A	3.00 A		0.005 m³/s (0.177 ft³/s)	
4.30 A		Cooling air requirement		
4.80 A		Installation altitude	1000 m (3280.84 ft)	
4 kHz		Ambient temperature		
0 200 Hz		Operation	-20 45 °C (-4 113 °F)	
		Transport	-40 70 °C (-40 158 °F)	
0 550 Hz		Storage	-25 55 °C (-13 131 °F)	
		Relative humidity		
	380 480 V 47 63 Hz 400V IEC 3.60 A 2.72 A 3 AC 400V IEC 1.50 kW 1.10 kW 4.10 A 3.10 A 4.30 A 4.80 A 4 kHz 0 200 Hz	380 480 V +10 % -20 % 47 63 Hz 400V IEC	3 AC  380 480 V +10 % -20 %  47 63 Hz  400V IEC	

## **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 sim	
Mechanical data		Closed-loop control techniques		
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameterizable Yes		
Size	FSA			
Net weight	3 kg (7.05 lb)	V/f with flux current control (FCC)	) Yes	
Width	73 mm (2.87 in)	V/f ECO linear / square-law	Yes	
Height	232 mm (9.13 in)	Sensorless vector control	Yes	
Depth	218 mm (8.58 in)	Vector control, with sensor	No	
Inputs / ou	tputs	Encoderless torque control	Yes	
Standard digital inputs	•	Torque control, with encoder	No	
Number	6			
Switching level: 0→1	11 V	Commi	unication	
Switching level: 1→0	5 V	Communication	PROFINET, EtherNet/IP	
Max. inrush current	15 mA	Connections		
Fail-safe digital inputs	13 11,11	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	screw-type terminal	
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	1.50 2.50 mm² (AWG 16 AWG 14)	
Number as transistor	0	Motor end		
Analog / digital inputs		Version	Screw-type terminals	
Number	2 (Differential input)	Conductor cross-section	1.50 2.50 mm² (AWG 16 AWG 14)	
Resolution	10 bit	DC link (for braking resistor)	,,	
Switching threshold as digital in	put	-		
0→1	4 V	PE connection	On housing with M4 screw	
1→0	1.6 V	Max. motor cable length		
Analog outputs		Shielded	150 m (492.13 ft)	
andiog outputs		Unshielded	300 m (984.25 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  $\pm 5~^{\circ}\text{C}$ 



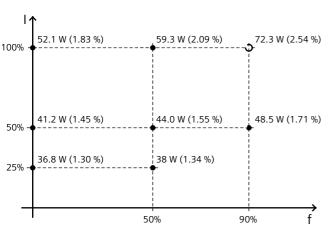
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Converter	losses to	EN 50598-2*
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Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-35.30 %



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: Intelligent Operator Panel (IOP-2)

S	Screen	Aml	bient conditions
Display design	LCD colors	Ambient temperature du	ring
Screen resolution	320 x 240 Pixel	Operation	0 50 °C (32 122 °F) 55 °C only with door mounting ki
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	during
Width	70.0 mm (2.76 in)	Max. operation	95 %
Height	106.85 mm (4.21 in)		Approvals
Depth	19.65 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM

<sup>\*</sup>converted values