

MLFB-Ordering data

6SL3220-2YE14-0UF0



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

Offer no. : Remarks :

Rated data		General tech.	specifications	
nput			Power factor λ	0.70 0.85
Number of phases	3 AC		Offset factor cos φ	0.96
Line voltage	380 480 \	/ +10 % -20 %	- Efficiency η	0.98
Line frequency	47 63 Hz		Sound pressure level (1m)	55 dB
Rated voltage	400V IEC	480V NEC	Power loss	0.060 kW
Rated current (LO)	3.60 A	3.00 A	Filter along (interprets 1)	Unfiltered
Rated current (HO)	2.72 A	2.70 A	Filter class (integrated)	
utput			EMC category (with accessories)	without
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC	Ambient conditions	
Rated power (LO)	1.50 kW	2.00 hp	Standard board coating type	Class 3C2, according to IEC 60721 3: 2002
Rated power (HO)	1.10 kW	1.50 hp		
Rated current (LO)	4.10 A	3.40 A	Cooling	Air cooling using an integrated far
Rated current (HO)	3.10 A	3.00 A		
Rated current (IN)	4.30 A		Cooling air requirement	0.005 m³/s (0.177 ft³/s)
Max. output current	4.80 A		Installation altitude	1000 m (3280.84 ft)
Pulse frequency	4 kHz		Ambient temperature	
Output frequency for vector control	0 200 Hz		Operation	-20 45 °C (-4 113 °F)
			Transport	-40 70 °C (-40 158 °F)
Output frequency for V/f control	0 550 Hz		Storage	-25 55 °C (-13 131 °F)
			Relative humidity	
verload capability			Max. operation	95 % At 40 °C (104 °F), condensati 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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			Figu		
Mechanical data		Closed-loop co	Closed-loop control techniques		
Degree of protection	IP20 / UL open type	V/f linear / square-law / paramete	rizable Yes		
Size	FSA	v/i illiear / square-law / paramete	rizable tes		
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		Encoderless torque control	Yes		
tandard digital inputs		Torque control, with encoder	No		
Number	6				
Switching level: 0→1	11 V	Communication			
Switching level: 1→0	5 V	Communication	PROFINET, EtherNet/IP		
Max. inrush current	15 mA	Connections			
ail-safe digital inputs	1311114	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)	(//// 10 ///// 14)		
witching threshold as digital in	put		On bearing with M4		
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)		
3 1		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 $\pm 5~^{\circ}\text{C}$



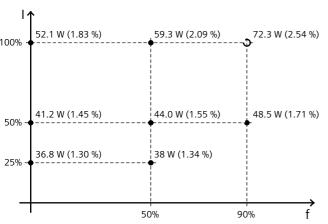
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Convertor	loccoc to	o EN 50598-2*	
Converter	าบรรษร เด	J EN JUJ90-Z	

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-35.30 %



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

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: Basic Operator Panel (BOP-2)

Screen		Ambient 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	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)		
- 	15100 (6177)	Certificate of suitability	CE, cULus, EAC, KCC, RCM

^{*}converted values