

MLFB-Ordering data

6SL3220-3YE10-0UF0



Client order no. : Order no. :

Item no.: Consignment no. : Project :

Offer no. : Remarks:

Rated da	ıta		General tech. specifications			
Input			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	0.040 kW		
Rated current (LO)	2.10 A	2.00 A		5.6.16 km		
Rated current (HO)	1.62 A	1.60 A	Filter class (integrated)	Unfiltered		
Output			EMC category (with accessories)	without		
Number of phases	3 AC		Eline category (with accessories)	Without		
Rated voltage	400V IEC	480V NEC	Ambient conditions			
Rated power (LO)	0.75 kW	1.00 hp	Standard board coating type	Class 3C2, according to IEC 60721-3 3: 2002		
Rated power (HO)	0.55 kW	0.75 hp				
Rated current (LO)	2.20 A	2.10 A	Cooling	Air cooling using an integrated fan		
Rated current (HO)	1.70 A	1.60 A				
Rated current (IN)	2.30 A		Cooling air requirement	0.005 m³/s (0.177 ft³/s)		
Max. output current	2.70 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			
Overload capability			Max. operation	95 % At 40 °C (104 °F), condensatio and icing not permissible		

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 simil				
Mechanical	data	Closed-loop co	Closed-loop control techniques				
Degree of protection	IP20 / UL open type	V/f linear / square-law / paramete	erizable Yes				
Size	FSA	VIII. 111. III					
Net weight	3 kg (7.05 lb)	V/f with flux current control (FCC					
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 / out	tputs	Encoderless torque control	Yes				
Standard digital inputs		Torque control, with encoder	No				
Number	6	Comm	unication				
Switching level: 0→1	11 V						
Switching level: 1→0	5 V	Communication	PROFINET, EtherNet/IP				
Max. inrush current	15 mA	Connections					
Fail-safe digital inputs		Signal cable					
Number	1	Conductor cross-section	0.15 1.50 mm ² (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 mm ² (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 mm ² (AWG 16 AWG 14)				
Resolution	10 bit	DC link (for braking resistor)					
Switching threshold as digital in	out	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)						
PTC/ KTY interface							

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

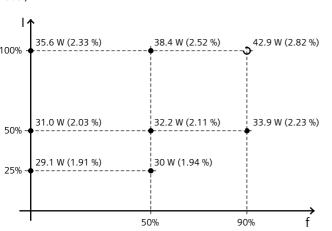


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Converter losses to EN 50598-2*						
Efficiency class IE2						
Comparison with the reference converter (90% / 100%)						
35.6 W (2.33 %) 38.4 W (2.52 %)	42.9 W (2.82 %)					
100% +	· 					



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		Ambient temperature during				
Canada	220 240 pinal	Operation	0 50 °C (32 122 °F)			
Screen resolution	320 x 240 Pixel		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 d	uring			
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			

^{*}converted values