

MLFB-Ordering data

6SL3220-3YH22-0UF0



Client order no. : Order no. : Offer no. :

Item no.: Consignment no. : Project :

Remarks :			rroject.	
Rated data			General tech. specifications	
nput			Power factor λ	0.90 0.95
Number of phases	3 AC		Offset factor cos φ	0.99
Line voltage	500 690 V +10 % -20 %		Efficiency η	0.98
Line frequency	47 63 Hz		Sound pressure level (1m)	70 dB
Rated voltage	690V IEC	600V NEC	Power loss	0.350 kW
Rated current (LO)	10.00 A	9.00 A	Filter class (integrated)	Unfiltered
Rated current (HO)	7.00 A	6.90 A		
Output			Ambient conditions	
Number of phases	3 AC		Standard board coating type	Class 3C2, according to IEC 60721-3
Rated voltage	690V IEC	600V NEC	Standard Sourd Coating type	3: 2002
Rated power (LO)	5.50 kW	7.50 hp	Cooling	Air cooling using an integrated fan
Rated power (HO)	4.00 kW	5.00 hp		
Rated current (LO)	9.00 A	9.00 A	Cooling air requirement	0.055 m ³ /s (1.942 ft ³ /s)
Rated current (HO)	6.30 A	6.30 A	Installation altitude	1000 m (3280.84 ft)
Rated current (IN)	10.00 A		Ambient temperature	
Max. output current	13.00 A		Operation	-20 45 °C (-4 113 °F)
Pulse frequency	2 kHz		Transport	-40 70 °C (-40 158 °F)
Output frequency for vector control	0 200 Hz		Storage	-25 55 °C (-13 131 °F)
			Relative humidity	
Output frequency for V/f control	0 550 Hz		Max. operation	95 % At 40 °C (104 °F), condensatio 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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Mechanical data		Closed-loop control techniques		
Degree of protection IP20 / UL open type		эн эн эн эн		
Size	FSD	V/f linear / square-law / parameter	rizable Yes	
Net weight	17 kg (36.60 lb)	V/f with flux current control (FCC)	Yes	
Width	200 mm (7.87 in)	V/f ECO linear / square-law	Yes	
Height	472 mm (18.58 in)	Sensorless vector control	Yes	
		Vector control, with sensor	No	
Depth Inputs / out	239 mm (9.41 in)	Encoderless torque control	Yes	
Inputs / out	tputs			
Standard digital inputs	_	Torque control, with encoder	No	
Number	6	Commu	ınication	
Switching level: 0→1	11 V	Communication	PROFINET, EtherNet/IP	
Switching level: 1→0	5 V	Connections		
Max. inrush current	15 mA	Signal cable		
Fail-safe digital inputs		-	0.15 1.50 mm²	
Number	1	Conductor cross-section	(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	10.00 35.00 mm ² (AWG 8 AWG 2)	
Number as transistor	0	Motor end		
Analog / digital inputs		Version	Screw-type terminals	
Number	2 (Differential input)	Conductor cross-section	10.00 35.00 mm² (AWG 8 AWG 2)	
Resolution	10 bit	DC link (for braking resistor)		
Switching threshold as digital in	put	PE connection	Screw-type terminals	
0→1	4 V	Max. motor cable length		
1→0	1.6 V	Shielded	200 m (656.17 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 $\pm 5~^{\circ}\text{C}$



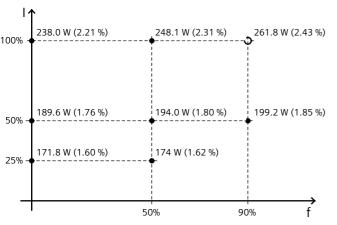
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Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-41.70 %
¹↑	

Converter losses to EN 50598-2*



Standards

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

EMC Directive 2004/108/EC, Low-Voltage **CE** marking 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)

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

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^{*}converted values