

MLFB-Ordering data

6SL3220-3YE10-0UF0



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

Offer no. : Remarks :

3 AC 380 480 V + 47 63 Hz 400V IEC 2.10 A 1.70 A 3 AC 400V IEC 0.75 kW	+10 % -20 % 480V NEC 2.00 A 1.60 A 480V NEC 1.00 hp	Power factor λ Offset factor cos φ Efficiency η Sound pressure level (1m) Power loss Filter class (integrated) EMC category (with accessories) Ambient of the standard board coating type	
380 480 V + 47 63 Hz 400V IEC 2.10 A 1.70 A 3 AC 400V IEC	480V NEC 2.00 A 1.60 A	Efficiency η Sound pressure level (1m) Power loss Filter class (integrated) EMC category (with accessories) Ambient	0.98 55 dB 0.040 kW Unfiltered without conditions Class 3C2, according to IEC 607
47 63 Hz 400V IEC 2.10 A 1.70 A 3 AC 400V IEC	480V NEC 2.00 A 1.60 A	Sound pressure level (1m) Power loss Filter class (integrated) EMC category (with accessories) Ambient	55 dB 0.040 kW Unfiltered without conditions Class 3C2, according to IEC 607
400V IEC 2.10 A 1.70 A 3 AC 400V IEC	2.00 A 1.60 A 480V NEC	Sound pressure level (1m) Power loss Filter class (integrated) EMC category (with accessories) Ambient	0.040 kW Unfiltered without conditions Class 3C2, according to IEC 60'
2.10 A 1.70 A 3 AC 400V IEC	2.00 A 1.60 A 480V NEC	Filter class (integrated) EMC category (with accessories) Ambient	Unfiltered without conditions Class 3C2, according to IEC 60
1.70 A 3 AC 400V IEC	1.60 A 480V NEC	EMC category (with accessories) Ambient	without conditions Class 3C2, according to IEC 60'
3 AC 400V IEC	480V NEC	EMC category (with accessories) Ambient	without conditions Class 3C2, according to IEC 60'
400V IEC		Ambient	conditions Class 3C2, according to IEC 60
400V IEC		Ambient	Class 3C2, according to IEC 60
			Class 3C2, according to IEC 60
0.75 kW	1.00 hp	Standard hoard coating type	
		Standard board coating type	3: 2002
0.55 kW	0.75 hp		
2.20 A	2.10 A	Cooling	Air cooling using an integrated
1.70 A	1.60 A		
2.30 A		Cooling air requirement	0.005 m³/s (0.177 ft³/s)
2.70 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	
2	2.20 A 1.70 A 2.30 A 2.70 A 4 kHz	2.20 A 2.10 A 1.70 A 1.60 A 2.30 A 2.70 A 4 kHz	Cooling 2.20 A 2.10 A 1.60 A Cooling air requirement 2.30 A Installation altitude Ambient temperature Operation Transport O 550 Hz Storage

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 c	Closed-loop control techniques	
Degree of protection	IP20 / UL open type	V(f.)		
Size	FSA	V/f linear / square-law / parameterizable Yes		
Net weight	3 kg (7.05 lb)	V/f with flux current control (FC	C) 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 / out		Encoderless torque control	Yes	
andard digital inputs	.puts	Torque control, with encoder	No	
Number	6	Torque control, with encoder	NO	
Switching level: 0→1	11 V	Comm	Communication	
		Communication	PROFINET, EtherNet/IF	
Switching level: 1→0	5 V	Connections		
Max. inrush current	15 mA	Signal cable		
ail-safe digital inputs		Conductor cross-section	0.15 1.50 mm²	
Number	1		(AWG 24 AWG 16)	
igital 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		
nalog / digital inputs		Version	Screw-type terminals	
Number	2 (Differential input)	Conductor cross-section	1.50 2.50 mm ²	
Resolution	10 bit	DC link (for braking resistor) (AWG 16 AWG 14)		
witching threshold as digital in	out	PE connection	On housing with M4 s	
0→1	4 V	Max. motor cable length	On nousing with M4 s	
1→0	1.6 V	Shielded	150 m (492.13 ft)	
nalog outputs		Unshielded	300 m (984.25 ft)	
Number	1 (Non-isolated output)	onsinciaca .	300 111 (30 1.23 10)	

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

PTC/ KTY interface



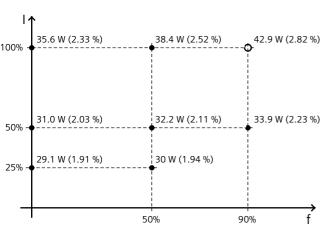
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Converter	losses to	FN	50598-2*	

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-29.60 %



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)

9	Screen	Ambie	ent conditions
Display design	LCD colors	Ambient temperature durin	g
Construct the	320 x 240 Pixel	Operation	0 50 °C (32 122 °F)
Screen resolution			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 du	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)	A	approvals
- -		Certificate of suitability	CE, cULus, EAC, KCC, RCM

^{*}converted values