

# MLFB-Ordering data

6SL3220-2YE40-0AB0



RFI suppression filter for

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

Item no.: Consignment no. : Project:

ita		General tecl	n. specifications
		Power factor λ	0.90 0.95
3 AC			0.99
380 480 V	+10 % -20 %	·	0.98
47 63 Hz			70 dB
400V IEC	480V NEC		1.550 kW
107.00 4	01.00 A	1 6 WC1 1033	
		Filter class (integrated)	RFI suppressi Category C2
94.00 A	80.00 A		
		EMC category (with accessories)	Category C2
3 AC			
400V IEC	480V NEC	Ambien	t conditions
55.00 kW	75.00 hp	Standard board coating type	Class 3C2, according 3: 2002
45.00 kW	50.00 hp		
110.00 A	96.00 A	Cooling	Air cooling using an
90.00 A	77.00 A		
113.00 A		Cooling air requirement	0.083 m³/s (2.931 f
149.00 A		Installation altitude	1000 m (3280.84 ft
4 kHz		Ambient temperature	
0 200 Hz		Operation	-20 45 °C (-4 1
		Transport	-40 70 °C (-40
0 550 Hz		Storago	-25 55 °C (-13
		Storage	25 111 55 6 ( 15 111
	3 AC 380 480 V 47 63 Hz 400V IEC 107.00 A 94.00 A 3 AC 400V IEC 55.00 kW 45.00 kW 110.00 A 90.00 A 113.00 A 149.00 A 4 kHz 0 200 Hz	3 AC  380 480 V +10 % -20 %  47 63 Hz  400V IEC	Power factor λ  3 AC  380 480 V +10 % -20 %  47 63 Hz  400V IEC  480V NEC  107.00 A  91.00 A  94.00 A  80.00 A  EMC category (with accessories)  3 AC  400V IEC  480V NEC  Ambien  55.00 kW  75.00 hp  110.00 A  96.00 A  113.00 A  149.00 A  149.00 A  Installation altitude  Ambien  Cooling  Cooling  Cooling  Transport

Ambient conditions					
Standard board coating type	Class 3C2, according to IEC 60721-3-3: 2002				
Cooling	Air cooling using an integrated fan				
Cooling air requirement	0.083 m³/s (2.931 ft³/s)				
Installation altitude	1000 m (3280.84 ft)				
Ambient temperature					
Operation	-20 45 °C (-4 113 °F)				
Transport	-40 70 °C (-40 158 °F)				
Storage	-25 55 °C (-13 131 °F)				

### 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

Max. operation

95~% At 40 °C (104 °F), condensation and icing not permissible



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			Figure simila			
Mechanica	l data	Closed-loop contr	Closed-loop control techniques			
Degree of protection IP20 / UL open type		V/f linear / square-law / parameterizab	ole Yes			
Size	FSE	\(\(\frac{1}{2}\) \(\frac{1}{2}\) \(\frac{1}{2	V			
Net weight	29 kg (63.93 lb)	V/f with flux current control (FCC)	Yes			
Width	275 mm (10.83 in)	V/f ECO linear / square-law Sensorless vector control	Yes Yes			
Height	551 mm (21.69 in)	Vector control, with sensor	No			
Depth	248 mm (9.76 in)					
Inputs / ou	tputs	Encoderless torque control	Yes			
Standard digital inputs		Torque control, with encoder	No			
Number	6	Communic	ration			
Switching level: 0→1	11 V	Communication				
Switching level: 1→0	5 V		SS, Modbus RTU, BACnet MS/TP			
Max. inrush current	15 mA	Connect	ions			
Fail-safe digital inputs		Signal cable				
Number	1	( ONGLICTOR CROSS-SOCTION	.15 1.50 mm² AWG 24 AWG 16)			
Digital outputs		Line side				
Number as relay changeover contact	2	<b>Version</b> so	crew-type terminal			
Output (resistive load)	DC 30 V, 5.0 A		5.00 70.00 mm² AWG 6 AWG 3/0)			
Number as transistor	0	Motor end				
Analog / digital inputs		<b>Version</b> So	crew-type terminals			
Number	2 (Differential input)		5.00 70.00 mm² AWG 6 AWG 3/0)			
Resolution	10 bit		WG 0 AWG 3/0)			
Switching threshold as digital in	put	DC link (for braking resistor)				
0→1	4 V		crew-type terminals			
		Max. motor cable length				
1→0	1.6 V	Shielded 1	50 m (492.13 ft)			
Analog outputs						

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

1 (Non-isolated output)

Number

PTC/ KTY interface



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UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI

EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC

**Standards** 

F47, REACH

	Converter	98-2*			
Efficie	ncy class		IE2	Compliance with standards	
Compa 100%)	arison with the referen	ce converter (90% /	-48.30 %		
	^ <b>↑</b>			CE marking	
100% -	1190.7 W (1.56 %)	1390.6 W (1.82 %)	1727.8 W (2.27 %)	<b>,</b>	
50% -	660.7 W (0.87 %)	733.1 W (0.96 %)	840.6 W (1.10 %)		
25% -	481.9 W (0.63 %)	512 W (0.67 %)			
_					

90%

The percentage values show the losses in relation to the rated apparent power of the converter.

50%

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)

S	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)		• •		
		Certificate of suitability	CE, cULus, EAC, KCC, RCM		

<sup>\*</sup>converted values