

MLFB-Ordering data

6SL3220-2YE24-0AB0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated da	nta		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)	63 dB
Rated voltage	400V IEC	480V NEC	Power loss	0.245 kW
Rated current (LO)	17.00 A	17.00 A	Filter class (integrated)	RFI suppression filter for Category C2
Rated current (HO) Output	12.47 A	13.25 A		
Number of phases	3 AC		EMC category (with accessories)	Category C2
Rated voltage	400V IEC	480V NEC	Ambient	conditions
Rated power (LO)	7.50 kW	10.00 hp	Standard board coating type	Class 3C2, according to IEC 60721-3 3: 2002
Rated power (HO)	5.50 kW	7.50 hp		
Rated current (LO)	18.00 A	14.00 A	Cooling	Air cooling using an integrated fan
Rated current (HO)	13.20 A	11.00 A		
Rated current (IN)	18.50 A		Cooling air requirement	0.009 m³/s (0.325 ft³/s)
Max. output current	24.00 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	
				95 % At 40 °C (104 °F), condensatio

Max. operation

95 % At 40 $^\circ C$ (104 $^\circ F), condensation and icing not permissible$

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



MLFB-Ordering data

6SL3220-2YE24-0AB0



			Figu
Mechanical	data	Closed-loop co	ntrol techniques
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameter	izable Yes
Size	FSB		
Net weight	6 kg (13.58 lb)	V/f with flux current control (FCC)	Yes
Width	100 mm (3.94 in)	V/f ECO linear / square-law	Yes
Height	275 mm (10.83 in)	Sensorless vector control	Yes
Depth	218 mm (8.58 in)	Vector control, with sensor	No
Inputs / out	tputs	Encoderless torque control	Yes
tandard digital inputs	·	Torque control, with encoder	No
Number	6	Commu	
Switching level: 0→1	11 V		inication
Switching level: 1→0	5 V	Communication	USS, Modbus RTU, BACnet MS/
Max. inrush current	15 mA	Connections	
ail-safe digital inputs		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 6.00 mm² (AWG 16 AWG 10)
Number as transistor	0	Motor end	
Analog / digital inputs		Version	Screw-type terminals
Number	2 (Differential input)	Conductor cross-section	1.50 6.00 mm² (AWG 16 AWG 10)
Resolution	10 bit	DC link (for braking resistor)	
witching threshold as digital in	put		
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)
Number	1 (Non-isolated output)		
Number	r (non-isolated output)		
PTC/ KTY interface			

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

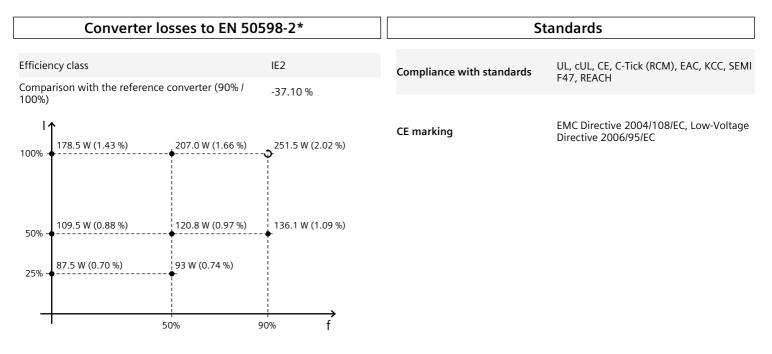


MLFB-Ordering data

6SL3220-2YE24-0AB0



Figure similar



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.

*converted values

Operator panel: Basic Operator Panel (BOP-2)

Screen		Ambient conditions	
Display design	LCD, monochrome	Ambient temperature during	
		Operation	0 50 °C (32 122 °F)
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	0.14 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