

MLFB-Ordering data

6SL3220-2YE50-0CB0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data		General tech	General tech. specifications		
Input			Power factor λ	0.90 0.95	
Number of phases	3 AC		Offset factor cos φ	0.99	
Line voltage	380 480 V	′ +10 % -20 %	Efficiency η	0.98	
Line frequency	47 63 Hz		Sound pressure level (1m)	74 dB	
Rated voltage	400V IEC	480V NEC	Power loss	3.670 kW	
Rated current (LO) Rated current (HO)	308.00 A 275.00 A	301.00 A 263.00 A	Filter class (integrated)	RFI suppression filter for Category C3	
utput		203.00 /	EMC category (with accessories)	Category C3	
Number of phases Rated voltage	3 AC 400V IEC	480V NEC	Ambient	mbient conditions	
Rated power (LO)	160.00 kW	250.00 hp	Standard board coating type	Class 3C2, according to IEC 60721 3: 2002	
Rated power (HO)	132.00 kW	150.00 hp			
Rated current (LO)	302.00 A	302.00 A	Cooling	Air cooling using an integrated far	
Rated current (HO)	250.00 A	240.00 A			
Rated current (IN)	309.00 A		Cooling air requirement	0.210 m³/s (7.416 ft³/s)	
Max. output current	408.00 A		Installation altitude	1000 m (3280.84 ft)	
Pulse frequency	2 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		
			Max operation	95 % At 40 °C (104 °F), condensa	

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

and icing not permissible



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		Figure s
data	Closed-loop co	ntrol techniques
IP20 / UL open type	V/f linear / square-law / parameter	rizable Yes
	V/f with flux current control (FCC)	Yes
-	V/f ECO linear / square-law	Yes
	Sensorless vector control	Yes
999 mm (39.33 in)	Vector control, with sensor	No
369 mm (14.53 in)		Yes
tputs	Encodeness torque control	103
	Torque control, with encoder	No
6	Commi	inication
11 V		
5 V		USS, Modbus RTU, BACnet MS/TP
15 mA	Conn	ections
	Signal cable	
1	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
	Line side	
2	Version	M10 screw
DC 30 V, 5.0 A	Conductor cross-section	35.00 185.00 mm² (AWG 1 MCM 2 x 350)
0	Motor end	
	Version	M10 screw
2 (Differential input)	Conductor cross-section	35.00 185.00 mm² (AWG 1 MCM 2 x 350)
10 bit	DC link (for braking resistor)	
put	PE connection	M10 screw
4 V	Max. motor cable length	
1.6 V	-	200 m (656.17 ft)
	Sherica	200 11 (050.17 10)
1 (Non-isolated output)		
	IP20 / UL open type FSG 105 kg (231.49 lb) 305 mm (12.01 in) 999 mm (39.33 in) 369 mm (14.53 in) tputs 6 11 V 5 V 15 mA 1 2 DC 30 V, 5.0 A 0 2 (Differential input) 10 bit put 4 V 1.6 V	IP20 / UL open type V/f linear / square-law / parameter FSG V/f with flux current control (FCC) 305 mm (12.01 in) Sensorless vector control 999 mm (39.33 in) Vector control, with sensor 369 mm (14.53 in) Encoderless torque control rputs Torque control, with encoder 6 Communication 11 V Communication 5 V Conductor cross-section 11 V Signal cable 12 mA Conductor cross-section 12 mA Conductor cross-section 10 bit Version 2 (Differential input) Conductor cross-section 10 bit DC link (for braking resistor) PE connection Max. motor cable length 1.6 V Shielded

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

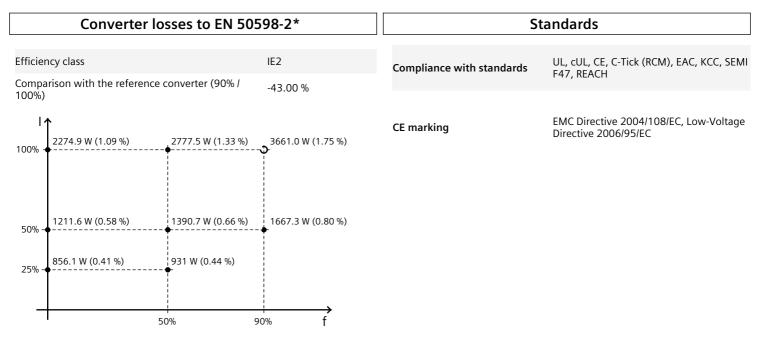


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Figure similar



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 di	uring
Width	70.0 mm (2.76 in)	Max. operation	95 %
Height	106.85 mm (4.21 in)	•	
Depth	19.60 mm (0.77 in)		Approvals
		Certificate of suitability	CE, cULus, EAC, KCC, RCM