

MLFB-Ordering data

6SL3220-2YE30-0UB0



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

Item no. :
Consignment no. :
Project :

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	380 480 V +10 % -20 %		Efficiency η	0.98
Line frequency	47 63 Hz		Sound pressure level (1m)	70 dB
Rated voltage	400V IEC	480V NEC	Power loss	0.500 kW
Rated current (LO)	37.00 A	32.00 A	Filter class (integrated)	Unfiltered
Rated current (HO)	33.00 A	28.00 A	The class (integrated)	
Dutput			EMC category (with accessories)	without
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC	Ambient conditions	
Rated power (LO)	18.50 kW	25.00 hp	Standard board coating type	Class 3C2, according to 3: 2002
Rated power (HO)	15.00 kW	20.00 hp		
Rated current (LO)	38.00 A	34.00 A	Cooling	Air cooling using an inte
Rated current (HO)	32.00 A	27.00 A		
Rated current (IN)	39.00 A		Cooling air requirement	0.055 m³/s (1.942 ft³/s)
Max. output current	51.30 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 °l
			Transport	-40 70 °C (-40 158
Output frequency for V/f control	0 550 Hz		Storage	-25 55 °C (-13 131
			Relative humidity	
			Max. operation	95 % At 40 °C (104 °F), (and icing not permissibl

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	Classed loop co	Figure simil
			ntrol techniques
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameter	izable Yes
Size	FSD	V/f with flux current control (FCC)	Yes
Net weight	17 kg (37.48 lb)	V/f ECO linear / square-law	Yes
Width	200 mm (7.87 in)	Sensorless vector control	Yes
Height	472 mm (18.58 in)	Vector control, with sensor	No
Depth	248 mm (9.76 in)	Encoderless torque control	Yes
Inputs / out	puts		185
Standard digital inputs		Torque control, with encoder	No
Number	6	Commu	inication
Switching level: 0→1	11 V	Communication	USS, Modbus RTU, BACnet MS/TP
Switching level: 1→0	5 V		
Max. inrush current	15 mA		ections
Fail-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	10.00 35.00 mm² (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 input		PE connection	Screw-type terminals
0→1	4 V	Max. motor cable length	Sciew-type terminals
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 $\pm 5~^\circ\mathrm{C}$

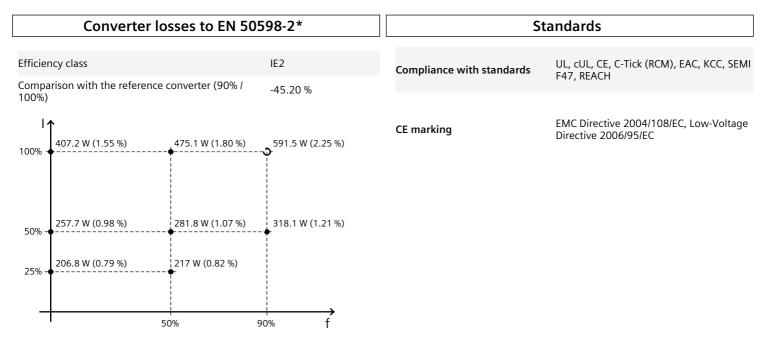


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Figure similar



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