

MLFB-Ordering data

6SL3220-1YE30-0AB0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data			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)	70 dB
Rated voltage	400V IEC	480V NEC	Power loss	
			Power loss	0.500 kW
Rated current (LO)	37.00 A	32.00 A	Filter class (integrated)	RFI suppression filter for Category C2
Rated current (HO)	33.00 A	28.00 A		
Output			EMC category (with accessories)	Category C2
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 IEC 60721-3- 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 integrated fan
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 °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), condensatior 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



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	• -		Figure si	
Mechanical data		Closed-loop control 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	18 kg (39.68 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)		Vac	
Inputs / outputs		Encoderless torque control	Yes	
tandard digital inputs		Torque control, with encoder	No	
Number	6	Communication		
Switching level: $0 \rightarrow 1$	11 V	Communication USS, Modbus RTU, BACnet M		
Switching level: 1→0	5 V	· · · · · · · · · · · · · · · · · · ·		
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	10.00 35.00 mm² (AWG 8 AWG 2)	
Number as transistor	0	Motor end		
nalog / 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)	((11000)(1102))	
Switching threshold as digital input		PE connection		
0→1	4 V	Max. motor cable length	Screw-type terminals	
1→0	1.6 V	Shielded	150 m (492.13 ft)	
Analog outputs		Sheucu	150 III (1 92.15 II)	
Number	1 (Non-isolated output)			
PTC/ KTY interface				

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

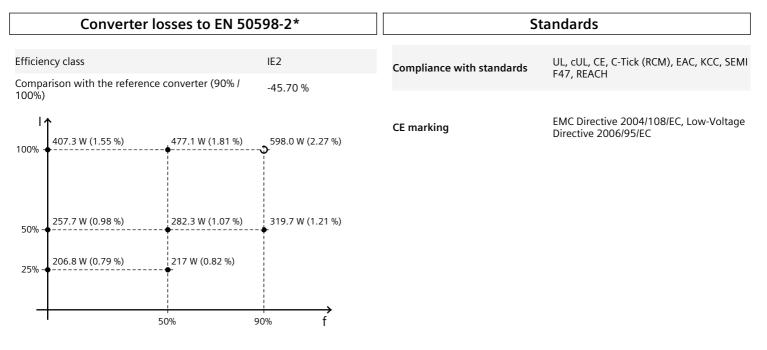


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The percentage values show the losses in relation to the rated apparent power of the converter.

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