

MLFB-Ordering data

6SL3220-1YE66-0CP0



Client order no. : Order no. :

Item no.: Consignment no. : Project :

Offer no. : Remarks:

Rated data			General tech.	specifications
nput			Power factor λ	0.75 0.93
Number of phases	3 AC		Offset factor cos φ	0.96
Line voltage	380 480 V +10 % -10 %		Efficiency η	0.98
Line frequency	47 63 Hz		Sound pressure level (1m)	74 dB
Rated voltage	400V IEC	480V NEC	Power loss	12.496 kW
Rated current (LO)	1061.00 A	862.00 A	Filter class (integrated)	RFI suppression filter for Category C3
Rated current (HO)	816.00 A	677.00 A		
Output			EMC category (with accessories)	Category C3
Number of phases	3 AC			
Rated voltage	400V IEC	400V IEC 480V NEC Ambient conditions		conditions
Rated power (LO)	560.00 kW	700.00 hp	Standard board coating type	Class 3C2, according to IEC 60721 3: 2002
Rated power (HO)	450.00 kW	500.00 hp		
Rated current (LO)	1000.00 A	830.00 A	Cooling	Air cooling using an integrated far
Rated current (HO)	890.00 A	652.00 A		
Rated current (IN)	1021.00 A		Cooling air requirement	0.450 m³/s (15.892 ft³/s)
Max. output current	1350.00 A		Installation altitude	1000 m (3280.84 ft)
Pulse frequency	4 kHz		Ambient temperature	
Output frequency for vector control	0 100 Hz		Operation	0 45 °C (32 113 °F)
			Transport	-40 70 °C (-40 158 °F)
Output frequency for V/f control	0 100 Hz		Storage	-25 55 °C (-13 131 °F)
			Relative humidity	
)verload canability			Max. operation	95 % At 40 °C (104 °F), condensat 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	
Mechanical data		Closed-loop cor	Closed-loop control techniques	
Degree of protection	IP20 / UL open type	VIII linear / square law / parameter	i zable Yes	
Size	FSJ	V/f linear / square-law / parameter	zable fes	
Net weight	250 kg (551.16 lb)	V/f with flux current control (FCC)	Yes	
Width	801 mm (31.54 in)	V/f ECO linear / square-law	Yes	
Height	1621 mm (63.82 in)	Sensorless vector control	Yes	
Depth	393 mm (15.47 in)	Vector control, with sensor	No	
Inputs / out		Encoderless torque control	Yes	
tandard digital inputs		Torque control, with encoder	No	
Number	6	Torque control, with encoder	NO	
Switching level: 0→1	11 V	Communication		
-		Communication	PROFIBUS DP	
Switching level: 1→0	5 V	Connections		
Max. inrush current	15 mA	Signal cable		
ail-safe digital inputs		Conductor cross-section	0.15 1.50 mm²	
Number	1		(AWG 24 AWG 16)	
igital outputs		Line side		
Number as relay changeover contact	2	Version	M12 screw	
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	240.00 mm ² (MCM 4 x 500 MCM 6 x 500)	
Number as transistor	0	Motor end		
nalog / digital inputs		Version	M12 screw	
Number	2 (Differential input)	Conductor cross-section	240.00 mm ² (MCM 4 x 500 MCM 8 x 500)	
Resolution	10 bit	2011/6/11/11	(INICINI + X 200 INICINI 6 X 200)	
witching threshold as digital in	out	DC link (for braking resistor)		
		PE connection	M12 screw	
0→1	4 V	Max. motor cable length		
→ 0 1.6 V		Shielded	150 m (492.13 ft)	
Analog outputs				
Number	1 (Non-isolated output)			

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

PTC/ KTY interface



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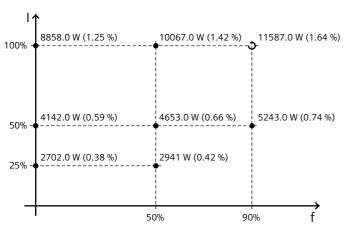
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-40.10 %



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

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.

Standards

Compliance with standards

UL, cUL, CE, C-Tick (RCM), EAC, KCC, SEMI F47, REACH

CE marking

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

^{*}converted values