

MLFB-Ordering data

6SL3220-1YE36-0UF0



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	1.020 kW
Rated current (LO)	72.00 A	61.00 A	Filter class (integrated)	Unfiltered
Rated current (HO)	62.00 A	54.00 A		
utput			EMC category (with accessories)	without
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC	Ambient conditions	
Rated power (LO)	37.00 kW	50.00 hp	Standard board coating type	Class 3C2, according to IEC 6072 3: 2002
Rated power (HO)	30.00 kW	30.00 hp		
Rated current (LO)	75.00 A	65.00 A	Cooling	Air cooling using an integrated f
Rated current (HO)	60.00 A	52.00 A		
Rated current (IN)	77.00 A		Cooling air requirement	0.055 m³/s (1.942 ft³/s)
Max. output current	102.00 A		Installation altitude	1000 m (3280.84 ft)
ulse 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), condense 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 similar	
Mechanical data		Closed-loop control techniques		
Degree of protection	IP20 / UL open type FSD	V/f linear / square-law / parameter	izable Yes	
		V/f with flux current control (FCC)	Yes	
Net weight	19 kg (41.89 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 / outputs		Encoderiess torque control	103	
Standard digital inputs		Torque control, with encoder	No	
Number	6	Communication		
Switching level: 0→1	11 V			
Switching level: 1→0	5 V		PROFINET, EtherNet/IP	
Max. inrush current	15 mA	Connections		
Fail-safe digital inputs		Signal cable		
Number	1	Conductor cross-section	0.15 1.50 mm ² (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 mm ² (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 mm ² (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	3 [
1→0	1.6 V	Shielded	200 m (656.17 ft)	
Analog outputs		Unshielded	300 m (984.25 ft)	
Number	1 (Non-isolated output)	onsnierded	300 III (964.23 II)	
PTC/ KTY interface				
1 motor temperature sensor input, sensor and Thermo-Click, accuracy ±5 °C	rs that can be connected: PTC, KTY			

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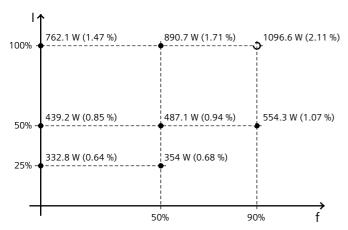
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-44.40 %



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

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