

MLFB-Ordering data

6SL3220-1YE28-0AP0



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	0.70 0.85	
Number of phases	3 AC		Offset factor cos φ	0.96	
Line voltage	380 480 V +10 % -20 %		·		
Line frequency	47 63 Hz		Efficiency η	0.98	
			Sound pressure level (1m)	67 dB	
Rated voltage	400V IEC	480V NEC	Power loss	0.396 kW	
Rated current (LO)	29.50 A	29.50 A	Filter class (integrated)	RFI suppression filter for Category C2	
Rated current (HO)	23.97 A	24.50 A			
Output			EMC category (with accessories)	Category C2	
Number of phases	3 AC			J ,	
Rated voltage	400V IEC	480V NEC	Ambient conditions		
Rated power (LO)	15.00 kW	20.00 hp	Standard board coating type	Class 3C2, according to IEC 60721-3 3: 2002	
Rated power (HO)	11.00 kW	15.00 hp			
Rated current (LO)	32.00 A	27.00 A	Cooling	Air cooling using an integrated fan	
Rated current (HO)	26.00 A	21.00 A			
Rated current (IN)	33.00 A		Cooling air requirement	0.018 m³/s (0.653 ft³/s)	
Max. output current	43.00 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		
Overload capability			Max. operation	95 % At 40 °C (104 °F), condensatio and icing not permissible	

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		Closed-loop con	Closed-loop control techniques	
Degree of protection	IP20 / UL open type			
Size	FSC	V/f linear / square-law / parameteri	zable Yes	
Net weight	8 kg (16.89 lb)	V/f with flux current control (FCC)	Yes	
Width	140 mm (5.51 in)	V/f ECO linear / square-law	Yes	
Height	295 mm (11.61 in)	Sensorless vector control	Yes	
Depth	218 mm (8.58 in)	Vector control, with sensor	No	
Inputs / ou		Encoderless torque control	Yes	
tandard digital inputs	reputs	Torque control, with encoder	No	
Number	6			
Switching level: 0→1	11 V	Communication		
Switching level: 1→0	5 V	Communication	PROFIBUS DP	
Max. inrush current	15 mA	Connections		
ail-safe digital inputs	13 1111	Signal cable		
Number	1	Conductor cross-section	0.15 1.50 mm ² (AWG 24 AWG 16)	
rigital 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	1.50 16.00 mm² (AWG 16 AWG 6)	
Number as transistor	0	Motor end		
nalog / digital inputs		Version	Screw-type terminals	
Number	2 (Differential input)	Conductor cross-section	1.50 16.00 mm ² (AWG 16 AWG 6)	
Resolution	10 bit	DC link (for braking resistor)	(((((((((((((((((((
witching threshold as digital in	nput			
-	4 V	PE connection	On housing with M4 screw	
0→1	¬ v	Max. motor cable length		
0→1 1→0	1.6 V			

PTC/ KTY interface

Number

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

1 (Non-isolated output)



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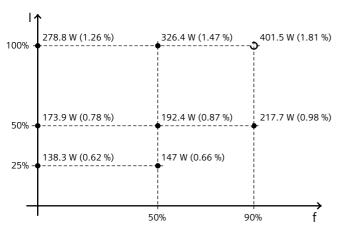
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-35.90 %



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

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,

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