

MLFB-Ordering data

6SL3230-1YE14-1AP0



Client order no. : Order no. :

Offer no. : Remarks:

Item no.: Consignment no. : Project :

Rated data		
Input		
Number of phases	3 АС	
Line voltage	380 480 V	+10 % -20 %
Line frequency	47 63 Hz	
Rated voltage	400V IEC	480V NEC
Rated current (LO)	3.60 A	3.00 A
Rated current (HO)	2.80 A	2.70 A

	Number of phases	3710	
	Line voltage	380 480 V -	-10 % -20 %
	Line frequency	47 63 Hz	
	Rated voltage	400V IEC	480V NEC
	Rated current (LO)	3.60 A	3.00 A
	Rated current (HO)	2.80 A	2.70 A
С	Output		
	Number of phases	3 AC	
	Rated voltage	400V IEC	480V NEC
	Rated power (LO)	1.50 kW	2.00 hp
	Rated power (HO)	1.10 kW	1.50 hp
	Rated current (LO)	4.10 A	3.40 A
	Rated current (HO)	3.10 A	3.00 A
	Rated current (IN)	4.30 A	
	Max. output current	4.80 A	
	Pulse frequency	4 kHz	
	Output frequency for vector control	0 200 Hz	
	Output frequency for V/f control	0 550 Hz	

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

General tech. specifications		
Power factor λ	0.70 0.85	
Offset factor cos φ	0.96	
Efficiency η	0.98	
Sound pressure level (1m)	55 dB	
Power loss	0.060 kW	
Filter class (integrated)	RFI suppression filter for Category C2	
EMC category (with accessories)	Category C2	

Ambient conditions		
Standard board coating type	Class 3C3, according to IEC 60721-3-3: 2002	
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Installation altitude	1000 m (3280.84 ft)	
Ambient temperature		
Operation	-20 45 °C (-4 113 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-25 55 °C (-13 131 °F)	

Relative humidity

	95 % At 40 °C (104 °F), condensation
Max. operation	and icing not permissible



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				Figure simila
Mechanical data		Closed-loop cor	Closed-loop control techniques	
Degree of protection	IP20 / UL open type	With the second	. I.I.	
Size	FSA	V/f linear / square-law / parameteri	zable Yes	
Net weight	3 kg (7.50 lb)	V/f with flux current control (FCC)	Yes	
Width	73 mm (2.87 in)	V/f ECO linear / square-law	Yes	
Height	232 mm (9.13 in)	Sensorless vector control	Yes	
Depth	218 mm (8.58 in)	Vector control, with sensor	No	
Inputs / ou	tputs	Encoderless torque control	Yes	
Standard digital inputs		Torque control, with encoder	No	
Number	6			
Switching level: 0→1	11 V	Communication		
Switching level: 1→0	5 V	Communication	PROFIBUS DP	
		Connections		
Max. inrush current	15 mA	Signal cable		
Fail-safe digital inputs		Conductor cross-section	0.15 1.50 mm²	
Number	1		(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	1.50 2.50 mm ² (AWG 16 AWG 14)	
Number as transistor	0	Motor end		
Analog / digital inputs		Version	Screw-type terminals	
Number	2 (Differential input)	Conductor cross-section	1.50 2.50 mm ² (AWG 16 AWG 14)	
Resolution	10 bit	DC link (for braking resistor)		
Switching threshold as digital in	put	-		
0→1	4 V	PE connection	On housing with M4 s	crew
1→0	1.6 V	Max. motor cable length		
Analog outputs		Shielded	150 m (492.13 ft)	
analog outputs				
N I	4.01			

Number

PTC/ KTY interface

1 (Non-isolated output)

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

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.



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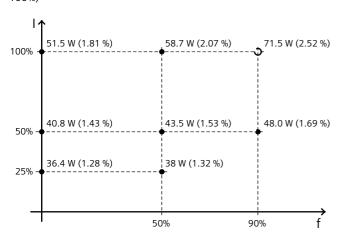
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-35.00 %



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

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.

I/O Extension Module

Technical specifications for the I/O Extension Modul are available via direct input (MLFB 6SL3255-0BE00-0AA0).

^{*}converted values