

MLFB-Ordering data

6SL3230-2YH36-0AF0



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

Item no.: Consignment no. : Project:

Rated data					
Input					
Number of phases	3 AC				
Line voltage	500 690 V +10 % -20 %				
Line frequency	47 63 Hz				
Rated voltage	690V IEC 600V NEC				
Rated current (LO)	40.00 A 40.00 A				
Rated current (HO)	36.60 A 36.60 A				
Output					
Number of phases	3 AC				

Line frequency	47 63 Hz	
Rated voltage	690V IEC	600V NEC
Rated current (LO)	40.00 A	40.00 A
Rated current (HO)	36.60 A	36.60 A
Output		
Number of phases	3 AC	
Rated voltage	690V IEC	600V NEC
Rated power (LO)	37.00 kW	40.00 hp
Rated power (HO)	30.00 kW	30.00 hp
Rated current (LO)	42.00 A	42.00 A
Rated current (HO)	35.00 A	35.00 A
Rated current (IN)	43.00 A	
Max. output current	57.00 A	
Pulse frequency	2 kHz	
Output frequency for vector control	0 200 Hz	
Output frequency for V/f control	0 550 Hz	

General tech. specifications						
Power factor λ	0.90 0.95					
Offset factor cos φ	0.99					
Efficiency η	0.98					
Sound pressure level (1m)	70 dB					
Power loss	0.940 kW					
Filter class (integrated)	RFI suppression filter for Category C2					
EMC category (with accessories) Category C2						
Ambient conditions						

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	0.055 m³/s (1.942 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					

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

Relative humidity

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



MLFB-Ordering data

6SL3230-2YH36-0AF0



Fi					

			Figure simila		
Mechanical data		Closed-loop co	Closed-loop control techniques		
Degree of protection	IP20 / UL open type	V/f linear / square-law / paramete	rizable Yes		
Size	FSD	V/f with flux current control (FCC)) Yes		
Net weight	20 kg (42.99 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)				
Inputs / out	tputs	Encoderless torque control	Yes		
Standard digital inputs		Torque control, with encoder	No		
Number	6	Commu	mination		
Switching level: 0→1	11 V	Communication			
Switching level: 1→0	5 V	Communication 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 mm² (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 mm² (AWG 8 AWG 2)		
Resolution	10 bit	DC link (for braking resistor)			
Switching threshold as digital in	put	PE connection	Screw-type terminals		
0→1	4 V	Max. motor cable length	screw type terminals		
1→0	1.6 V	Shielded	100 m (328.08 ft)		
Analog outputs		Siliciaca	. 55 111 (520.00 10)		

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)

Number

PTC/ KTY interface



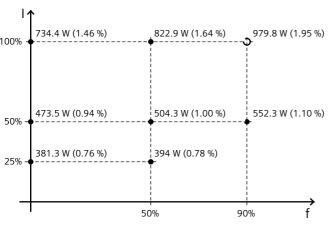
MLFB-Ordering data

6SL3230-2YH36-0AF0



Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-41.10 %
I ↑	

Converter losses to EN 50598-2*



Standards

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

EMC Directive 2004/108/EC, Low-Voltage **CE** marking 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.

Operator panel: Basic Operator Panel (BOP-2)

S	Screen	Ambi	ent conditions	
Display design LCD, monochrome		Ambient temperature during		
		Operation	0 50 °C (32 122 °F)	
Mech	anical data	Storage	-40 70 °C (-40 158 °F)	
Degree of protection	IP55 / UL type 12	Transport	-40 70 °C (-40 158 °F)	
Net weight	0.14 kg (0.31 lb)	Relative humidity at 25°C d	uring	
Width	70.0 mm (2.76 in)	Max. operation	95 %	
Height	106.85 mm (4.21 in)		Approvals	
Depth	19.60 mm (0.77 in)	Certificate of suitability	CE, cULus, EAC, KCC, RCM	

^{*}converted values