

MLFB-Ordering data

6SL3230-2YE34-0AF0



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

Item no.: Consignment no. : Project :

Rated data		General tech. specifications			
Input			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	0.770 kW	
Rated current (LO)	59.00 A	49.00 A	Filter class (integrated)	RFI suppression filter for Category C2	
Rated current (HO)	47.00 A	41.00 A			
Output	2.46		EMC category (with accessories)	Category C2	
Number of phases Rated voltage	3 AC 400V IEC	480V NEC	Ambient conditions		
Rated power (LO)	30.00 kW	40.00 hp	Standard board coating type	Class 3C3, according to IEC 60721-3-3: 2002	
Rated power (HO)	22.00 kW	25.00 hp			
Rated current (LO)	60.00 A	52.00 A	Cooling	Air cooling using an integrated fan	
Rated current (HO)	45.00 A	40.00 A			
Rated current (IN)	62.00 A		Cooling air requirement	0.055 m³/s (1.942 ft³/s)	
Max. output current	81.00 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		
			Max. operation	95 % At 40 °C (104 °F), condensation 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	V/f linear / square-law / parameterizable Yes		
Size	FSD	v/r linear / square-law / parameter	izable Yes	
Net weight	18 kg (39.68 lb)	V/f with flux current control (FCC)	Yes	
Width	200 mm (7.87 in)	V/f ECO linear / square-law	Yes	
Height	472 mm (18.58 in)	Sensorless vector control	Yes	
Depth	248 mm (9.76 in)	Vector control, with sensor	No	
Inputs / ou		Encoderless torque control	Yes	
Standard digital inputs	tputs	Toward with an address	Nie	
Number	6	Torque control, with encoder	No	
		Communication		
Switching level: 0→1	11 V	Communication	PROFINET, EtherNet/IP	
Switching level: 1→0	5 V	Connections		
Max. inrush current	15 mA	Signal cable		
Fail-safe digital inputs			0.45 4.50 3	
Number	1	Conductor cross-section	0.15 1.50 mm² (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 in	put	PE connection	Scrow type terminals	
0→1	4 V		Screw-type terminals	
1→0	1.6 V	Max. motor cable length	150 (402 12 (1)	
Analog outputs		Shielded	150 m (492.13 ft)	
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



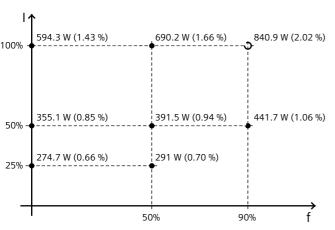
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Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-42.20 %
I ↑	

Converter losses to EN 50598-2*



CE marking

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

Standards

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.

Operator panel: Basic Operator Panel (BOP-2)

Screen		Ambient conditions	
Display design	LCD, monochrome	Ambient temperature during	
		Operation	0 50 °C (32 122 °F)
Mechanical 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	luring
Width	70.0 mm (2.76 in)	Max. operation	95 %
Height	106.85 mm (4.21 in)		
Depth	19.60 mm (0.77 in)	Approvals	
		Certificate of suitability	CE, cULus, EAC, KCC, RCM

^{*}converted values