

MLFB-Ordering data

6SL3230-1YE46-0UF0



Client order no. : Order no. : Item no. : Consignment no. : Project :

Offer no. : Remarks :

		Power factor λ	0.90 0.95
3 AC		Offset factor cos φ	0.99
380 480 V	+10 % -20 %	Efficiency η	0.98
47 63 Hz		Sound pressure level (1m)	72 dB
400V IEC	480V NEC	Power loss	1.830 kW
203.00 A	174.00 A	Filter class (integrated)	Unfiltered
189.00 A	166.00 A		
		EMC category (with accessories)	without
3 AC			
400V IEC	480V NEC	Ambient conditions	
110.00 kW	150.00 hp	Standard board coating type	Class 3C3, according to IEC 3: 2002
90.00 kW	100.00 hp		
205.00 A	180.00 A	Cooling	Air cooling using an integra
178.00 A	156.00 A		
210.00 A		Cooling air requirement	0.153 m³/s (5.403 ft³/s)
277.00 A		Installation altitude	1000 m (3280.84 ft)
2 kHz		Ambient temperature	
0 200 Hz		Operation	-20 45 °C (-4 113 °F)
		Transport	-40 70 °C (-40 158 °F)
0 550 Hz		Storage	-25 55 °C (-13 131 °F)
		Relative humidity	
	380 480 V 47 63 Hz 400V IEC 203.00 A 189.00 A 3 AC 400V IEC 110.00 kW 90.00 kW 205.00 A 178.00 A 210.00 A 277.00 A 2 kHz 0 200 Hz	380 480 V +10 % -20 % 47 63 Hz 400V IEC	380 480 V +10 % -20 % 47 63 Hz 400V IEC

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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Mechanical	data	Closed-loop cor	ntrol techniques
Degree of protection	IP20 / UL open type		
Size	FSF	V/f linear / square-law / parameter	izable Yes
Net weight	67 kg (147.71 lb)	V/f with flux current control (FCC)	Yes
Width	305 mm (12.01 in)	V/f ECO linear / square-law	Yes
Height	709 mm (27.91 in)	Sensorless vector control	Yes
Depth	369 mm (14.53 in)	Vector control, with sensor	No
Inputs / out		Encoderless torque control	Yes
Standard digital inputs		Towns control with an ad-	NI-
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	1	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
Digital outputs	•	Line side	(AWG 24 AWG 10)
Number as relay changeover contact	2	Version	M10 screw
Output (resistive load)	DC 30 V, 5.0 A	Conductor cross-section	35.00 120.00 mm² (AWG 1 AWG 4/0)
Number as transistor	0	Motor end	
Analog / digital inputs		Version	M10 screw
Number	2 (Differential input)	Conductor cross-section	35.00 120.00 mm² (AWG 1 AWG 4/0)
Resolution	10 bit	DC link (for braking resistor)	
Switching threshold as digital in	put	PE connection	M10 screw
0→1	4 V	Max. motor cable length	
1→0	1.6 V	Shielded	300 m (984.25 ft)
Analog outputs		Unshielded	450 m (1476.38 ft)
Number	1 (Non-isolated output)		,
PTC/ KTY interface			

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



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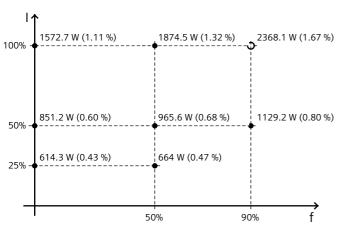
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Figure similar

Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-40.70 %



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

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