

MLFB-Ordering data

6SL3230-2YE44-1AF0



Figure similar

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

Item no. :
Consignment no. :
Project :

Rated da	ita		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 \	/ +10 % -20 %	Efficiency η	0.98
Line frequency	47 63 Hz		Sound pressure level (1m)	72 dB
Rated voltage	400V IEC	480V NEC	Power loss	1.570 kW
Rated current (LO)	172.00 A	151.00 A	Filter class (integrated)	RFI suppression filter for
Rated current (HO)	154.00 A	132.00 A	The class (integrated)	Category C2
Output			EMC category (with accessories)	Category C2
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC	Ambient	conditions
Rated power (LO)	90.00 kW	125.00 hp	Standard board coating type	Class 3C3, according to IEC 60721-3 3: 2002
Rated power (HO)	75.00 kW	100.00 hp		
Rated current (LO)	178.00 A	156.00 A	Cooling	Air cooling using an integrated fan
Rated current (HO)	145.00 A	124.00 A		
Rated current (IN)	183.00 A		Cooling air requirement	0.153 m³/s (5.403 ft³/s)
Max. output current	241.00 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	
				95 % At 40 °C (104 °F), condensatio

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

Max. operation

and icing not permissible



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	•	a : · · ·		Figure similar
Mechanical	data	Closed-loop co	ntrol techniques	
Degree of protection	IP20 / UL open type	V/f linear / square-law / parameter	izable Yes	
Size	FSF	V/f with flux current control (FCC)	Yes	
Net weight	68 kg (149.91 lb)	V/f ECO linear / square-law	Yes	
Width	305 mm (12.01 in)	Sensorless vector control	Yes	
Height	709 mm (27.91 in)	Vector control, with sensor	No	
Depth	369 mm (14.53 in)			
Inputs / out	tputs	Encoderless torque control	Yes	
Standard digital inputs		Torque control, with encoder	No	
Number	6	Communication		
Switching level: 0→1	11 V	Communication	PROFINET, EtherNet/IP	
Switching level: 1→0	5 V			
Max. inrush current	15 mA		ections	
Fail-safe digital inputs		Signal cable		
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	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	150 m (492.13 ft)	
Analog outputs				
Number	1 (Non-isolated output)			
PTC/ KTY interface				

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

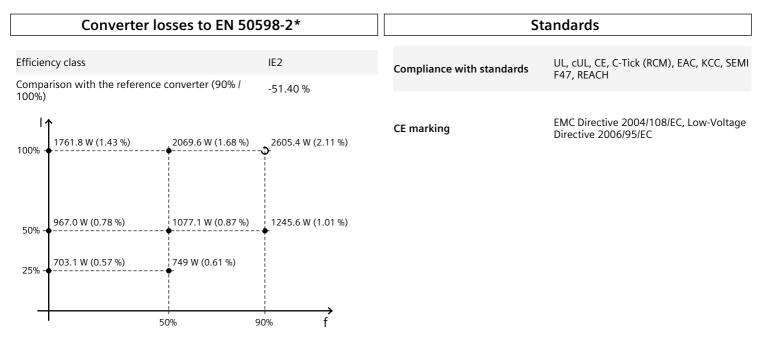


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Figure similar



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.

*converted values

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 du	uring
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	
Deptil	19.00 mm (0.77 m)	Certificate of suitability	CE, cULus, EAC, KCC, RCM

I/O Extension Module

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