

# MLFB-Ordering data

6SL3230-2YE40-0AF0



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

Item no.: Consignment no. : Project:

Rated data			General	
nput			Power factor λ	
Number of phases	3 AC		Offset factor cos φ	
Line voltage	380 480 V	′ +10 % -20 %	Efficiency η	
Line frequency	47 63 Hz		Sound pressure level (1m)	
Rated voltage	400V IEC	480V NEC	Power loss	
Rated current (LO)	107.00 A	91.00 A	Filter class (integrated)	
Rated current (HO)	94.00 A	80.00 A	Filter class (integrated)	
Output			EMC category (with accesse	
Number of phases	3 AC			
Rated voltage	400V IEC	480V NEC	Amb	
Rated power (LO)	55.00 kW	75.00 hp	Standard board coating typ	
Rated power (HO)	45.00 kW	50.00 hp		
Rated current (LO)	110.00 A	96.00 A	Cooling	
Rated current (HO)	90.00 A	77.00 A		
Rated current (IN)	113.00 A		Cooling air requirement	
Max. output current	149.00 A		Installation altitude	
Pulse frequency	4 kHz		Ambient temperature	
Output frequency for vector control	0 200 Hz		Operation	
			Transport	
Output frequency for V/f control	0 550 Hz		Storage	
			Relative humidity	

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	0.083 m³/s (2.931 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)		

tech. specifications

0.90 ... 0.95

0.99

0.98

70 dB

1.550 kW

Category C2

RFI suppression filter for

#### 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

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



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			Figure similar
Mechanical data		Closed-loop cor	ntrol techniques
Degree of protection	IP20 / UL open type	VIII.	
Size	FSE	V/f linear / square-law / parameteri	i <b>zable</b> Yes
Net weight	29 kg (63.93 lb)	V/f with flux current control (FCC) Yes	
Width	275 mm (10.83 in)	V/f ECO linear / square-law	Yes
Height	551 mm (21.69 in)	Sensorless vector control	Yes
Depth	248 mm (9.76 in)	Vector control, with sensor	No
Inputs / out	puts	Encoderless torque control	Yes
Standard digital inputs	Tr	Torque control, with encoder	No
Number	6		
Switching level: 0→1	11 V	Commu	nication
Switching level: 1→0	5 V	Communication	PROFINET, EtherNet/IP
Max. inrush current	15 mA	Connections	
Fail-safe digital inputs	אווו כו	Signal cable	
Number	1	Conductor cross-section	0.15 1.50 mm <sup>2</sup> (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	25.00 70.00 mm <sup>2</sup> (AWG 6 AWG 3/0)
Number as transistor	0	Motor end	
Analog / digital inputs		Version	Screw-type terminals
Number	2 (Differential input)	Conductor cross-section	25.00 70.00 mm <sup>2</sup> (AWG 6 AWG 3/0)
Resolution	10 bit	(AWG 0 AWG 5/0)	
Switching threshold as digital in	out	DC link (for braking resistor)	
0→1	4 V	PE connection	Screw-type terminals
1→0	1.6 V	Max. motor cable length	
	1.U V	Shielded	150 m (492.13 ft)
Analog outputs			
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



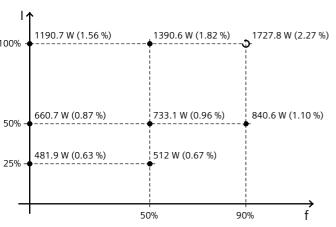
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#### 6SL3230-2YE40-0AF0



Converter	lassas ta Fl	N 50508-2*
CONVENIE	いいうきょう しい ヒロ	N JUJJU-Z

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-48.30 %



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

# Operator panel: Basic Operator Panel (BOP-2)

S	creen	Ambie	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 du	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

<sup>\*</sup>converted values