

MLFB-Ordering data

6SL3210-1KE17-5UB1



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

Item no.: Consignment no. : Project:

Number of phases Line voltage	3 AC 380 480 V +10 % -20 %
Line voltage	
	380 480 V +10 % -20 %
Line frequency	47 63 Hz
Rated current (LO)	9.50 A
Rated current (HO)	8.20 A
Dutput	
Number of phases	3 AC
Rated voltage	400 V
Rated power IEC 400V (LO)	3.00 kW
Rated power NEC 480V (LO)	4.00 hp
Rated power IEC 400V (HO)	2.20 kW
Rated power NEC 480V (HO)	3.00 hp
Rated current (IN)	7.50 A
Rated current (LO)	7.30 A
Rated current (HO)	5.60 A
Max. output current	11.20 A
Pulse frequency	4 kHz
Output frequency for vector control	0 240 Hz
Output frequency for V/f control	0 550 Hz

Overload ca	pability
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Low Overload (LO)

150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time

High Overload (HO)

200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time

General tech. specifications		
Power factor λ	0.70 0.85	
Offset factor cos φ	0.95	
Efficiency η	0.97	
Sound pressure level (1m)	52 dB	
Power loss	0.14 kW	
Filter class (integrated)	Unfiltered	

Ambient conditions		
Cooling	Air cooling using an integrated fan	
Cooling air requirement	0.005 m³/s (0.177 ft³/s)	
Installation altitude	1000 m (3280.84 ft)	
Ambient temperature		
Operation	-10 40 °C (14 104 °F)	
Transport	-40 70 °C (-40 158 °F)	
Storage	-40 70 °C (-40 158 °F)	
Relative humidity		

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

Closed-loop control techniques		
V/f linear / square-law / parameterizable	Yes	
V/f with flux current control (FCC)	Yes	
V/f ECO linear / square-law	Yes	
Sensorless vector control	Yes	
Vector control, with sensor	No	
Encoderless torque control	No	
Torque control, with encoder	No	



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Degree of protection

Standard digital inputs

Switching level: 0→1

Switching level: 1→0

Max. inrush current

Fail-safe digital inputs

Output (resistive load)

Number as transistor

Output (resistive load)

Number as relay changeover co

Size

Width

Height

Depth

Number

Number

Digital outputs

Net weight

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Mechanical	data	Con	nmunication
	IP20 / UL open type	Communication	USS/MODBUS RTU
	FSA	Co	onnections
	1.70 kg (3.75 lb)	Signal cable	
	73 mm (2.87 in)	Conductor cross-section	0.15 1.50 mm² (AWG 24 AWG 16)
	196 mm (7.72 in)	Line side	
	203 mm (7.99 in)	Version	Plug-in screw terminals
Inputs / out	tputs	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)
outs		Motor end	
	6	Version	Plug-in screw terminals
	11 V	Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)
	5 V	DC link (for braking resistor	·)
	15 mA	Version	Plug-in screw terminals
uts		Conductor cross-section	1.00 2.50 mm² (AWG 18 AWG 14)
	1	Line length, max.	15 m (49.21 ft)
		PE connection	On housing with M4 screw
geover contact	1	Max. motor cable length	on housing with MH stick
)	DC 30 V, 0.5 A	Shielded	50 m (164.04 ft)
	1	Unshielded	150 m (492.13 ft)
		Silsinciaca	130 111 (172.13 10)

Compliance with standards

CE marking

Analog / digital inputs		
Number		

Number	1 (Differential input)
Resolution	10 bit

Switching threshold as digital input

0→1	4 V
1→0	1.6 V

DC 30 V, 0.5 A

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 $\pm 5\,^{\circ}\text{C}$

Standards

UL, cUL, CE, C-Tick (RCM)

Directive 2006/95/EC

EMC Directive 2004/108/EC, Low-Voltage



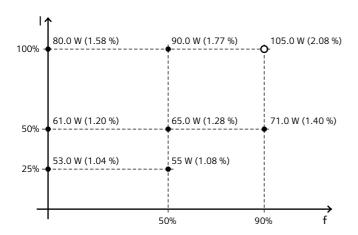
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Converter losses to EN 50598-2*

Efficiency class	IE2
Comparison with the reference converter (90% / 100%)	-69.05 %



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