

MLFB-Ordering data

6SL3210-1KE21-7UB1

Figure similar

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

Item no. :
Consignment no. :
Project :

Rated data		General tech. specifications	
		Power factor λ	0.70 0.85
Number of phases	3 AC	Offset factor cos φ	0.95
Line voltage	380 480 V +10 % -20 %	Efficiency η	0.97
Line frequency	47 63 Hz	Sound pressure level (1m)	63 dB
Rated current (LO)	21.50 A	Power loss	0.24 kW
Rated current (HO)	18.20 A	Filter class (integrated)	Unfiltered
utput		-	
Number of phases	3 AC	Ambiei	nt conditions
Rated voltage	400 V	Cooling	Air cooling using an integrated fan
Rated power IEC 400V (LO)	7.50 kW	Cooling air requirement 0.009 m ³ /s (0.318 ft ³ /s)	
Rated power NEC 480V (LO)	10.00 hp		
Rated power IEC 400V (HO)	5.50 kW	Installation altitude 1000 m (3280.84 ft)	
Rated power NEC 480V (HO)	7.50 hp	Ambient temperature	
Rated current (IN)	17.00 A	Operation	-10 40 °C (14 104 °F)
Rated current (LO)	16.50 A	Transport -40 70 °C (-40 158 °F) Storage -40 70 °C (-40 158 °F) Relative humidity	
Rated current (HO)	12.50 A		
Max. output current	25.00 A		
Pulse frequency	4 kHz	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible
Output frequency for vector control	0 240 Hz		
		Closed-loop	control techniques
Output frequency for V/f control	0 550 Hz	V/f linear / square-law / parame	eterizable Yes
		V/f with flux current control (F	CC) Yes
verload capability		V/f ECO linear / square-law	Yes
Low Overload (LO)		Sensorless vector control	Yes
150 % base load current IL for 3 s, followed by	110 % base load current IL for 57 s in a	Vector control, with sensor	No
300 s cycle time		Encoderless torque control	No

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

Encoderless torque control

Torque control, with encoder

No



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Degree of protection

Size

Width

Height

Depth

Number

Net weight

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		Figure simil
data	Communication	
IP20 / UL open type	Communication	USS/MODBUS RTU
FSB	Cor	inections
2.30 kg (5.07 lb)	Signal cable	
100 mm (3.94 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
outs	Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10)
	Motor end	
6	Version	Plug-in screw terminals
11 V	Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10)
5 V	DC link (for braking resistor)	
15 mA	Version	Plug-in screw terminals
	Conductor cross-section	4.00 6.00 mm² (AWG 12 AWG 10)

Inputs / outputs

Mechanical data

Switching level: 0→1

Max. inrush current	
Fail-safe digital inputs	

Switching level: 1→0

Standard digital inputs

Number

Digital outputs

Number as relay changeover contact

Output (resistive load)	DC 30 V, 0.5 A
Number as transistor	1
Output (resistive load)	DC 30 V, 0.5 A

Analog / digital inputs

Number	1 (Differential input)	
Resolution	10 bit	

Switching threshold as digital input

1	Line length, max.
	PE connection

motor cable length av

motor	cable	length	

Shielded	50 r

m (164.04 ft) Unshielded

150 m (492.13 ft) **Standards**

Compliance with standards UL, cUL, CE, C-Tick (RCM)

CE marking

EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC

15 m (49.21 ft)

On housing with M4 screw

Analog outputs

Number

0→1

1→0

1 (Non-isolated output)

4 V

1.6 V

PTC/ KTY interface

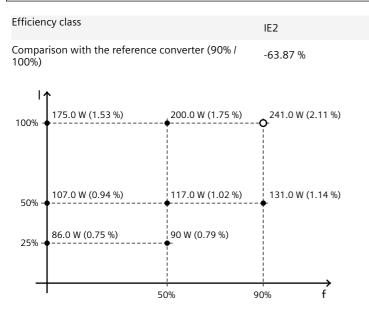
1 motor temperature sensor input, sensors that can be connected: PTC, KTY and Thermo-Click, accuracy ±5 °C



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Converter losses to EN 50598-2*



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

No image available for this configuration.

Figure similar