



Figure similar

MLFB-Ordering data

6SL3210-1KE11-8AB1

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

Rated data		General tech. specifications	
Input			
Number of phases	3 AC	Power factor λ	0.70 ... 0.85
Line voltage	380 ... 480 V +10 % -20 %	Offset factor $\cos \varphi$	0.95
Line frequency	47 ... 63 Hz	Efficiency η	0.97
Rated current (LO)	2.30 A	Sound pressure level (1m)	52 dB
Rated current (HO)	1.90 A	Power loss	0.04 kW
		Filter class (integrated)	Class A
Output		Ambient conditions	
Number of phases	3 AC	Cooling	Air cooling using an integrated fan
Rated voltage	400 V	Cooling air requirement	0.005 m³/s (0.177 ft³/s)
Rated power IEC 400V (LO)	0.55 kW	Installation altitude	1000 m (3280.84 ft)
Rated power NEC 480V (LO)	0.75 hp	Ambient temperature	
Rated power IEC 400V (HO)	0.37 kW	Operation	-10 ... 40 °C (14 ... 104 °F)
Rated power NEC 480V (HO)	0.50 hp	Transport	-40 ... 70 °C (-40 ... 158 °F)
Rated current (LO)	1.70 A	Storage	-40 ... 70 °C (-40 ... 158 °F)
Rated current (HO)	1.30 A	Relative humidity	
Rated current (IN)	1.80 A	Max. operation	95 % At 40 °C (104 °F), condensation and icing not permissible
Max. output current	2.60 A	Closed-loop control techniques	
Pulse frequency	4 kHz	V/f linear / square-law / parameterizable	Yes
Output frequency for vector control	0 ... 240 Hz	V/f with flux current control (FCC)	Yes
Output frequency for V/f control	0 ... 550 Hz	V/f ECO linear / square-law	Yes
Overload capability		Sensorless vector control	Yes
Low Overload (LO)		Vector control, with sensor	No
150 % base load current IL for 3 s, followed by 110 % base load current IL for 57 s in a 300 s cycle time		Encoderless torque control	No
High Overload (HO)		Torque control, with encoder	No
200 % base load current IH for 3 s, followed by 150 % base load current IH for 57 s in a 300 s cycle time			



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Mechanical data		Communication			
Degree of protection	IP20 / UL open type	Communication			
Size	FSA	USS/MODBUS RTU			
Inputs / outputs		Connections			
Net weight	1.70 kg (3.75 lb)	Signal cable			
Width	73 mm (2.87 in)	Conductor cross-section	0.15 ... 1.50 mm ² (AWG 24 ... AWG 16)		
Height	196 mm (7.72 in)	Line side			
Depth	203 mm (7.99 in)	Version	Plug-in screw terminals		
Standard digital inputs		Conductor cross-section	1.00 ... 2.50 mm ² (AWG 18 ... AWG 14)		
Number	6	Motor end			
Switching level: 0 → 1	11 V	Version	Plug-in screw terminals		
Switching level: 1 → 0	5 V	Conductor cross-section	1.00 ... 2.50 mm ² (AWG 18 ... AWG 14)		
Max. inrush current	15 mA	DC link (for braking resistor)			
Fail-safe digital inputs		Version	Plug-in screw terminals		
Number	1	Conductor cross-section	1.00 ... 2.50 mm ² (AWG 18 ... AWG 14)		
Digital outputs		Line length, max.	15 m (49.21 ft)		
Number as relay changeover contact	1	PE connection	On housing with M4 screw		
Output (resistive load)	DC 30 V, 0.5 A	Max. motor cable length			
Number as transistor	1	Shielded	50 m (164.04 ft)		
Output (resistive load)	DC 30 V, 0.5 A	Unshielded	150 m (492.13 ft)		
Standards					
Analog / digital inputs		Compliance with standards	UL, cUL, CE, C-Tick (RCM)		
Number	1 (Differential input)	CE marking			
Resolution	10 bit	EMC Directive 2004/108/EC, Low-Voltage Directive 2006/95/EC			
Switching threshold as digital input					
0 → 1	4 V				
1 → 0	1.6 V				
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 ±5 °C					



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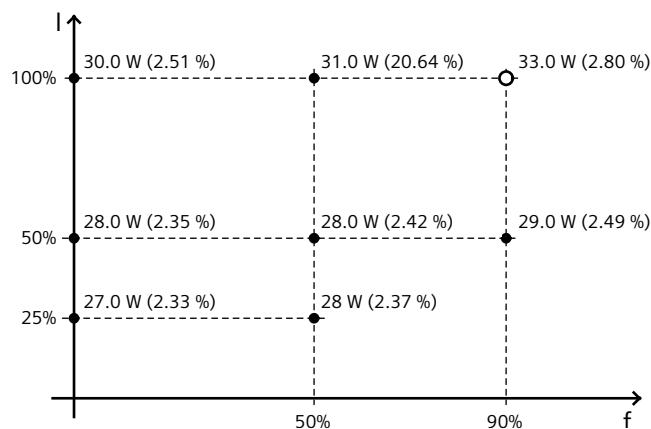
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Converter losses to EN 50598-2*

Efficiency class

IE2

Comparison with the reference converter (90% /
100%) -78.80 %



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